CD RECEIVER

KDC-W6531/W6531Y /X589/X7529

SERVICE MANUAL

KENWOOD

Kenwood Corporation

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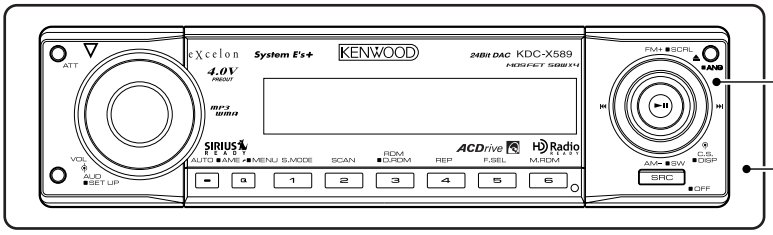
B53-0240-00 (N) 1708

A unique identification number (Unique ID) is given to each unit, which is imprinted on the CD mechanism assembly. If and when the mechanism assembly or Flash ROM (IC17) on the mechanism board is replaced, it is necessary to write the Unique ID. For details, refer to “How to Write the Unique ID” on Page 15.

CD MECHANISM EXTENSION CORD (24P) : **W05-0934-00**

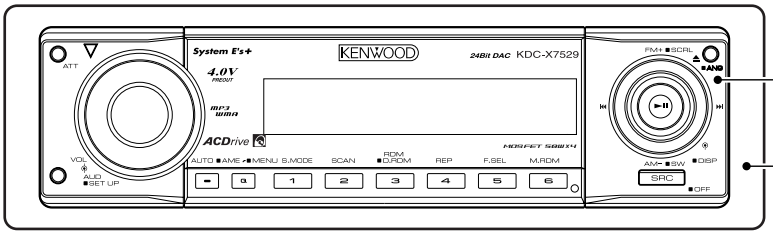
KDC-X589



Panel assy (A64-3498-12)

Escutcheon (B07-3125-01)

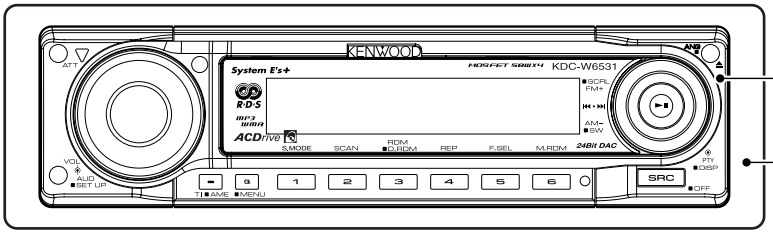
KDC-X7529



Panel assy (A64-3503-12)

Escutcheon (B07-3125-01)

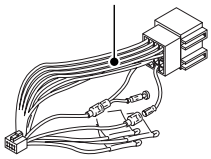
KDC-W6531
KDC-W6531Y



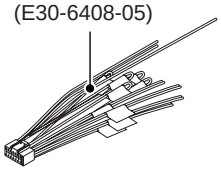
Panel assy (A64-3511-12)

Escutcheon (B07-3125-01)

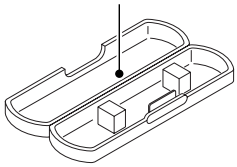
DC cord ※ (E30-6412-05)



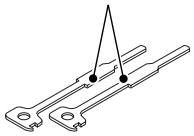
DC cord ※ (E30-6408-05)



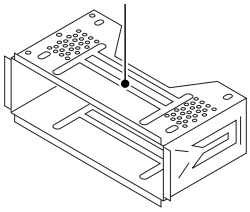
Plastic cabinet assy (A02-2732-03)



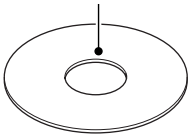
Lever (D10-4589-04) x2



Mounting hardware assy (J21-9716-03)



Compact disc
KDC-X589/X7529: (W01-1643-15)
KDC-W6531/W6531Y: (W01-1647-15)

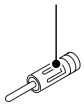


Remote controller assy (A70-2067-05) ※

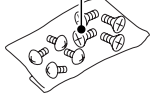
RC-527

Size AA battery ※ (Not suplied)

Antenna adaptor (T90-0523-05) ※



Screw set
KDC-X589: ※ (N99-1723-05)
KDC-X7529: (N99-1758-05)



Screw set
KDC-X589: (N09-6212-05)
KDC-X7529/W6531/W6531Y: (N09-6280-05)

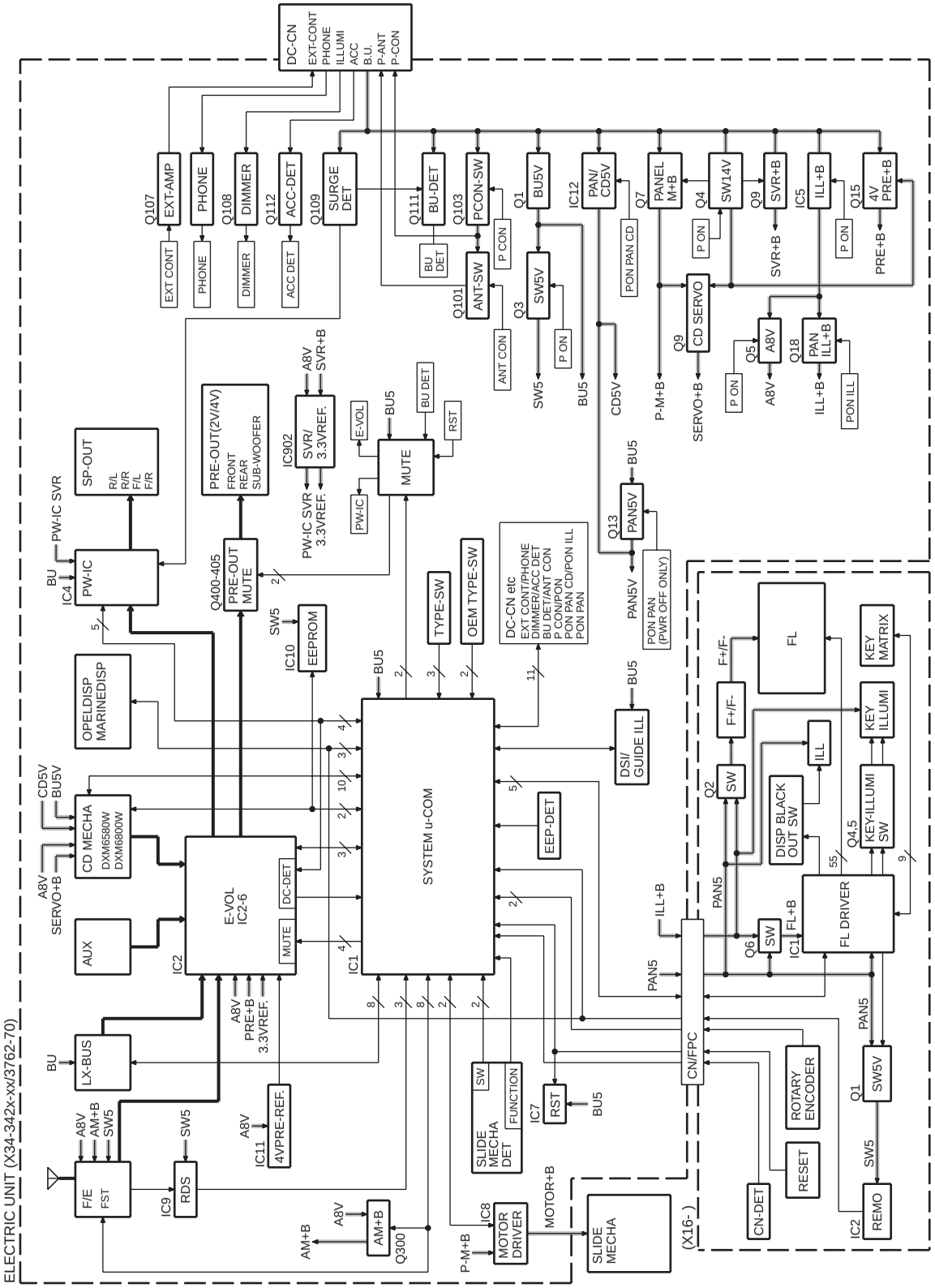
TDF PANEL INFORMATION

MODEL	TDF PANEL No.	TDF NAME
KDC-X589	Y33-2180-60	TDF-55DX
KDC-X7529	Y33-2180-65	TDF-X7529
KDC-W6531/W6531Y	Y33-2180-63	TDF-W6531

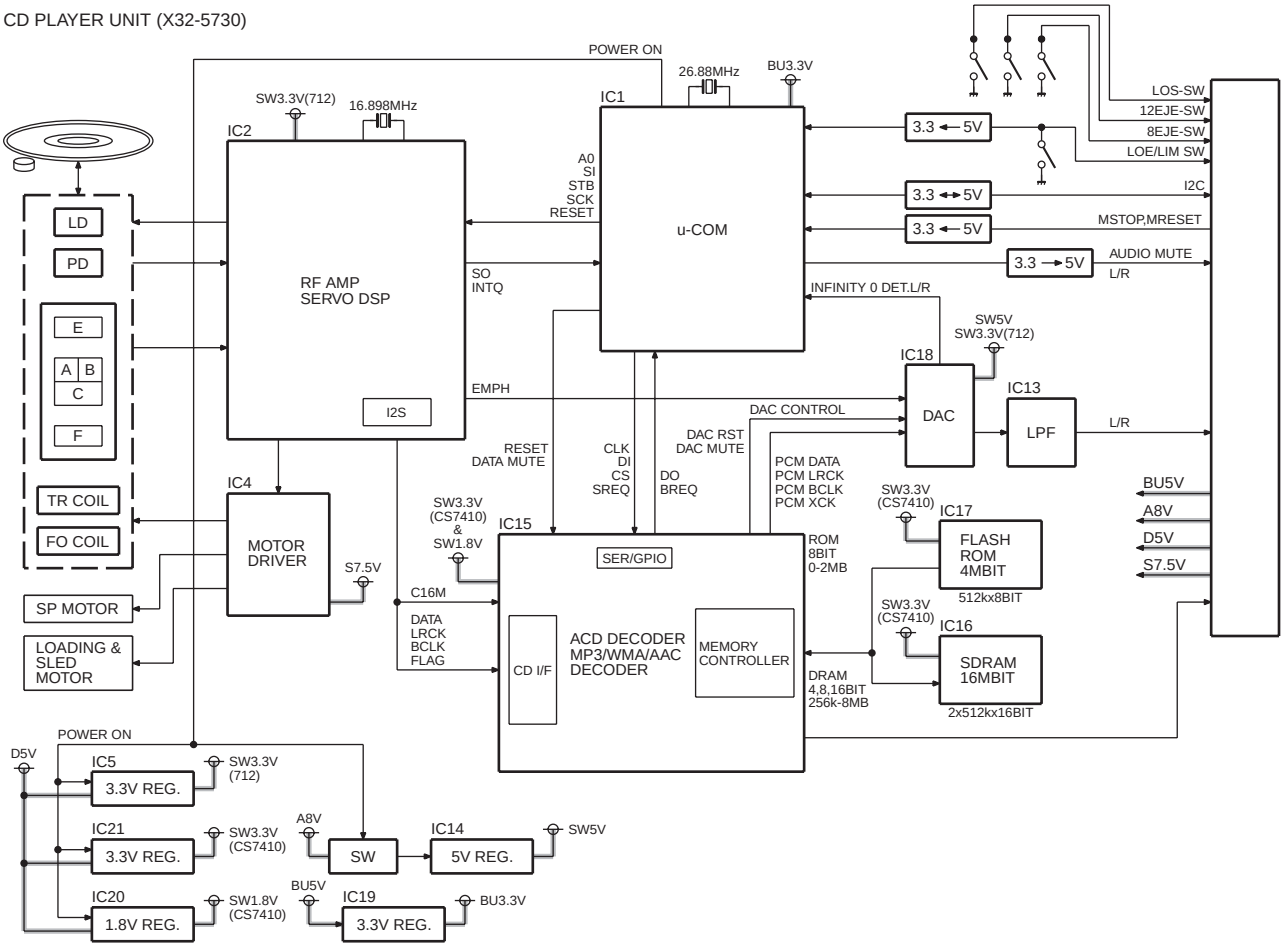
※Depends on the model. Refer to the parts list.

This product uses Lead Free solder.

BLOCK DIAGRAM



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● SWITCH UNIT (X16-2920-1x/3142-70)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	VFD Driver	
IC2	Remote Control IC	
Q1	SW5	The power supply for IC2 is turned on when Q1's base level goes "L".
Q2,Q3	FL+ SW	The power supply for filament is turned on when Q3's base level goes "H".
Q4	GREEN LED SW	GREEN LED is turned on when Q4's base level goes "H".
Q5	RED LED SW	RED LED is turned on when Q5's base level goes "H".
Q6,Q7	VFL SW	The power supply for IC1's VFL is turned on when Q7's base level goes "H".
Q8	GREEN LED SW (TRIANGLE LED)	GREEN LED (TRIANGLE LED) is turned on when Q8's base level goes "H".

COMPONENTS DESCRIPTION

● CD PLAYER UNIT (X32-5730-00)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	μ-com for mechanism control	
IC2	LSI for CD signal processing +RF AMP	
IC4	BTL driver	SP,SL (including LO/EJ) motor and PU actuator
IC5	SW3.3V regulator	3.3V power supply for IC2, PU, and IC18 digital section
IC13	Audio active filter	Secondary LPF
IC14	A5V regulator	5V power supply for DAC
IC15	Compacted audio decoding DSP	AC drive decoder,MP3/WMA/AAC decoder
IC16	Compacted audio expanding SDRAM	
IC17	Decoder software, unique ID storage flash ROM	
IC18	Audio external 24-bit D-A converter	
IC19	BU3.3V regulator	3.3V power supply for μ-com
IC20	1.8V regulator	1.8V power supply for core section of IC15
IC21	Decoder/SDRAM/Flash ROM 3.3V regulator	3.3V power supply for port section of IC15, IC16 and IC17
Q1,4	Level shift (3.3V-5V) FET	
Q3,5,6	Level shift (3.3V-5V) transistor with 2 elements	
Q7	Level shift (3.3V-5V) transistor	
Q8	APC (Auto Power Control) transistor	
Q9,10	Transistor for preceding beam delaying SW during non-search	
Q11	A5V power supply constant circuit FET	
Q12,13	SW8V SW transistor	
Q14,15	SDRAM 3.3V power supply SW transistor	SDRAM power supply is turned off when /CSRST is “L”.
D2	UPD63712GC built-in resetting terminal static protection diode	
D3	Protection diode for pick-up laser diode	
D4,D5	Diode for securing audio L-R reference voltage	
D6	Diode for control terminal’s “L” confirmation for IC20 and IC21	

● ELECTRIC UNIT (X34-342x-xx/3762-70)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	System μ-com	
IC2	E-vol IC	
IC3	Regulator IC for A8V	
IC4	Power IC	
IC5	Regulator IC for ILL+B (10.65V)	
IC6	Logic IC for muting	
IC7	Reset IC	
IC8	Motor Driver IC for Slide panel mecha	
IC9	RDS Decoder IC	
IC10	Rom IC for Installer-Memory and Rom-Correction	
IC11	AMP for 4V Pre-Out Ref.	
IC12	Switching regulator IC for CD mecha D5V and FL filament	
IC902	AMP for Power IC SVR and E-vol IC 3.3V Ref.	
Q1,2	B.U.5V AVR	While BU is applied, BU5V AVR outputs 5V.
Q3,11	SW5V	When Q11’base goes Hi, SW5V outputs 5V.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q4,906	SW14V	When Q4'base goes Hi, SW14V outputs 14V.
Q5,6	AUDIO8V AVR	When Q6'base goes Hi, A8V AVR outputs 8.3V.
Q7,8	MOTOR+B AVR	When Q8'base goes Hi, M+B AVR outputs 8.3V.
Q9,10	SERVO+B AVR	When Q10'base goes Hi, S+B AVR outputs 7.7V.
Q12	SW for IC12	When Q12'base goes Lo, IC12 is turned on.
Q13	PAN5V	When Q13'base goes Lo, PAN5V outputs 5V.
Q14	4V PRE+B Short Protection	If Q15'Emitter short to GND, between Q14'Base to Emitter more than 0.6V, Q14 ON and Q15 is turned off.
Q15,16	4V PRE+B	When Q15'base goes Hi, 4V PRE+B outputs 12V.
Q17,18	ILL+B SW	When Q17'base goes Hi, ILL+B SW outputs 10.65V.
Q101,102	P-ANT SW	When Q102'base goes Hi, P-ANT SW outputs 14V.
Q103,106	P-CON SW	When Q106'base goes Hi, P-CON SW outputs 14V.
Q104,105	P-CON Protection	Protects Q104 from being triggered erroneously. This is achieved by turning on output protection when P-CON output grounding is detected.
Q107	Ext Amp Control Buffer	
Q108	Small lamp det SW	When Q108'base goes Hi, Q108 is turned on.
Q109,110	Surge det	When Q109'base goes Hi, Q109, Q110 are turned on.
Q111	BU det	When Q111'base goes Hi, Q111 is turned on.
Q112	ACC det	When Q112'base goes Hi, Q112 is turned on.
Q113	Mute driver	When Q113'base goes Lo, mute driver is turned on.
Q114	Mute driver	When Q114'base goes Lo, mute driver is turned on.
Q115,116	Mute driver	When a base goes Lo, mute driver is turned on.
Q300,301	AM+B SW	When Q301'base goes Hi, AM+B is out.
Q304	DSI (Disabled System Indicator)	DSI blinks when Q304'base goes "H/L"
Q400~405	Pre-out mute SW	When a base goes Hi, Pre-out is muted.
Q905	SVR+B AVR	When Q905'base goes Hi, SVR+B AVR outputs 14V.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● MECHANISM MICROCOMPUTER 91CU27UG5UR8 (X32-573 : IC1)

Pin No.	Pin Name	I/O	Application	Processing Operation Description
1	VREFL	I	ADC reference power supply input terminal (L)	GND
2	DMUTE	O	Driver MUTE	L : STOP, H : MUTE OFF
3	CSRST	O	(Decoder) Resetting control	L : RESET, H : NORMAL
4	NC	O	Not used.	Open output L-fixed
5	LZM	I	0bit MUTE detection (Lch)	L : MUTE OFF, H : MUTE ON
6	RZM	I	0bit MUTE detection (Rch)	L : MUTE OFF, H : MUTE ON
7	BREQ	I	(Decoder) BREQ signal input	
8	DSPINT	I	(DSP) interruption signal input	H : Interruption
9	SREQ	O	(Decoder) SREQ signal output	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation Description
10	NC	O	Not used.	Open output L-fixed
11	S_DATA	O	(Decoder) Data output for serial data	
12	B_DATA	I	(Decoder) Data input for serial data	
13	CLK	O	(Decoder) Clock output for serial data	
14	DSPTXD1	O	(DSP) Data output for serial data	
15	DSPRXD1	I	(DSP) Data input for serial data	
16	DSPSCLK1	O	(DSP) Clock output for serial data	
17	AM0	-	ROM mode selection terminal	H : NORMAL, L : External ROM mode
18	DVCC	-	BU3.3V	
19	X2	O	Oscillator connection 26.88MHz	
20	DVSS	-	GND	
21	X1	I	Oscillator connection 26.88MHz	
22	AM1	-	H-fixed	
23	RESET	I	Reset detection	L : RESET H : NORMAL
24,25	NC	O	Not used.	Open output L-fixed
26	NMI	I	Non-maskable interruption Not used.	
27	ALE	O	Not used.	Open output prohibited (Hi-Z)
28	DSPSTB	O	(DSP) Data strobe signal output	
29	DSPA0	O	(DSP) Command parameter identification signal output	H : Transmitting parameter, L : Transmitting command
30	DSPRST	O	(DSP) Reset control	
31	NC	O	Not used.	Open output L-fixed
32	NC	O	Not used.	Open output L-fixed
33	SEARCH	O	Search condition output	H : In search, L : Normal (x2 : L-fixed)
34	LOE/LIM_SW	I	PU LIM detection SW	H : LIM
35~39	NC	O	Not used.	Open output L-fixed
40	POND3.3	O	D3.3V POWER ON control terminal	H : POWER ON
41	NC	O	Not used.	Open output L-fixed
42	PONCS	O	CS7410-series power supply control terminal	H:POWER ON
43~47	NC	O	Not used.	Open output L-fixed
48	DATA_MUTE	O	Data output status	L : DATA output MUTE
49	NC	O	Not used.	Open output L-fixed
50	NC (BOOT)	O	Mask : Not used. (output H) / Flash (write terminal)	(Flash) L : WRITE, H : NORMAL
51~53	NC	O	Not used.	Open output L-fixed
54	MUTE L	O	Lch audio MUTE control	L : MUTE ON
55	MUTE R	O	Rch audio MUTE control	L : MUTE ON
56	NC	O	Not used.	Open output L-fixed
57	SDA	I/O	(System μ-com) I2C data	
58	SCL	I/O	(System μ-com) I2C clock	
59	MSTOP	I	Standby restart interruption	L:STOP H:STOP release
60~62	AN0~AN2	I	TEST0~TEST2	PULL DOWN
63	UNQID	I	Unique ID write permission	L : Normal, H : During service write
64	AVCC	-	ADC power supply terminal	BU3.3V

MICROCOMPUTER'S TERMINAL DESCRIPTION

● MAIN MICROCOMPUTER 30624MWPA35GP (X34 : IC1)

Pin No.	Pin Name	Module (functional)	I/O	Application	Truth Value Table	Processing Operation Description
1	REMO	EXTRA	I	Remote controller signal input		Pulse width is detected.
2	LX_MUTE	LX_M	I	Mute request from slave unit		H : Mute ON, L : Mute OFF
3	AUD_SDA	AUDIO	I/O	E-VOL data output terminal		
4	AUD_SEL	AUDIO	O	E-VOL control terminal		
5	AUD_SCL	AUDIO	O	E-VOL clock output terminal		
6	BYTE	µCOM	-			
7	CNVSS	µCOM	-			
8	XCIN	µCOM	I			
9	XCOUT	µCOM	I			
10	RESET	µCOM	-			
11	XOUT	µCOM	-			
12	VSS	µCOM	-			
13	XIN	µCOM	-	12.0MHz		
14	VCC1	µCOM	-			
15	NMI	µCOM	I	Not used.		
16	CN_DET	EXTRA	I	Panel communication detection		H : No PANEL, L : With PANEL
17	RDS_CLK	TUNER	I	RDS decoder CLK input terminal (RDS Model only)		
17	NC		O	Not used. (Other than RDS Model)		Output L-fixed
18	LX_REQ_S	LX_M	I	Communication request from slave unit		
19	PON_AM	Power supply	I/O	AM power supply control		AM in operation : H, AM not in operation : Hi-z
20	LX_REQ_M	LX_M	O	Communication request to slave unit		
21	TUN_IFC_OUT	TUNER	I	F/E IFC OUT input terminal		H : With station, L : No station
22	RDS_AFS_L	TUNER	I/O	Constant switching at noise detection	④	Refer to truth value table.
23	RDS_AFS_M	TUNER	I/O	Constant switching at noise detection	④	Refer to truth value table.
24	RDS_QUAL	TUNER	I	RDS decoder QUAL input terminal (RDS Model only)		
24	NC		O	Not used. (Other than RDS Model)		Output L-fixed
25	RDS_DATA	TUNER	I	RDS decoder DATA input terminal (RDS Model only)		
25	NC		O	Not used. (Other than RDS Model)		Output L-fixed
26	PWIC_BEEP	PWIC	O	Beep output		
27	TUN_SCL	TUNER	I/O	F/E I2C clock input/output terminal		(MAX400kHz)
28	TUN_SDA	TUNER	I/O	F/E I2C data input/output terminal		
29	VFD_SYS_DATA	toPANEL	O	VFD data output terminal		Data output
30	VFD_PAN_DATA	toPANEL	I	VFD data input terminal		Data input
31	VFD_CL	toPANEL	O	VFD clock output terminal		125kHz
32	VFD_INH	toPANEL	O	VFD data blanking output		H : Light ON, L : Light OFF
33	SDA/CD_SDA	CD	I/O	CD mechanism I2C data input/output terminal		
33	SDA/ROMCOR_SDA	EXTRA	I/O	ROM correction E2PROM I2C data input/output terminal		
34	SCL/CD_SCL	CD	I/O	CD mechanism I2C clock output terminal		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (functional)	I/O	Application	Truth Value Table	Processing Operation Description
34	SCL/ROMCOR_SCL	EXTRA	I/O	ROM correction E2PROM I2C clock output terminal		
35	PON_PANEL	Power supply	I/O	Panel 5V control terminal		POWER ON : Hi-Z, POWER OFF : L, 50Ms before PON_PANEL/CD turns H : L
36	DSI	EXTRA	I/O	DSI control terminal		OFF : Hi-z No PANEL : Pulse driven ILL_ON, OPEN (When Power_ON) : H
37	PM_MOT1	P-MECHA	O	Panel motor control 1	②	Refer to truth value table.
38	PM_MOT2	P-MECHA	O	Panel motor control 2	②	Refer to truth value table.
39	EPM	μCOM	I	FLASH EPM input terminal		
40	PM_OPEN	P-MECHA	I	Panel full open detection	③	Refer to truth value table.
41	PM_CLOSE	P-MECHA	I	Panel mechanism close detection	③	Refer to truth value table.
42	ROMCOR_DET	EXTRA	I	E2PROM write request		H : Writing
43	PM_DET	P-MECHA	I	Panel mechanism detection		H : Function check in progress
44	VFD_CE	toPANEL	O	VFD_control request		
45	ROTARY_CW	toPANEL	I	VOL key input		Pulse width is detected.
46	ROTARY_CCW	toPANEL	I	VOL key input		Pulse width is detected.
47	CD_DISC12_SW	CD	I	CD disc detection terminal (12cm)		
48	CD_LOS_SW	CD	I	CD loading detection terminal		
49	CD_MUTE_R	CD	I	CD MUTE (Rch) request terminal		H : Normal, L : Rch mute request Effective only for CD
50	CD_MUTE_L	CD	I	CD MUTE (Lch) request terminal		H : Normal, L : Lch mute request Effective only for CD
51	CD_MRST	CD	O	CD mechanism μ-com RST terminal		H : Normal, L : Reset
52	CD_MSTOP	CD	O	CD mechanism μ-com stop terminal		H : CD mechanism μ-com in operation L : CD mechanism μ-com stop
53	NC	CD	O	Not used.		Output L-fixed
54	CD_LOE_LIM_SW	CD	I	CD detection terminal (Chucking SW)		H : Loading complete L : No disc
55	CD_LOEJ	CD	I/O	CD motor control terminal	①	Refer to truth value table.
56	CD_MOTOR	CD	O	CD motor control terminal	①	Refer to truth value table.
57	PON_ILLUMI	Power supply	I/O	Key Illumi power supply control		ON : H OFF : Hi-Z
58	PON_PANEL_CD	Power supply	O	Panel 5V/CD WMA Power supply control terminal		POWER ON : L POWER OFF : H, when RESET, L before M-STOP. Refer to timing chart
59	PON	Power supply	O	Power supply control		POWER ON : H, POWER OFF : L
60	VCC2	μCOM	-			
61	EXT_AMP_CON	EXTRA	I/O	External AMP control		
62	VSS	μCOM	-			
63	TYPE_1	TYPE	I	Destination switching	⑥	Refer to truth value table.
64	TYPE_2	TYPE	I	Destination switching	⑥	Refer to truth value table.
65	TYPE_3	TYPE	I	Destination switching	⑥	Refer to truth value table.
66	TUN_TYPE1	TYPE	I	Destination setting 1	⑤	Refer to truth value table.
67	TUN_TYPE2	TYPE	I	Destination setting 2	⑤	Refer to truth value table.
68	OEM_DISP_DATA	EXTRA	I/O	External display data		External display
68	NC		O	Not used. (M-destination only)		Output L-fixed
69	OEM_DISP_CLK	EXTRA	I/O	External display CLK		External display
69	NC		O	Not used. (M-destination only)		Output L-fixed

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (functional)	I/O	Application	Truth Value Table	Processing Operation Description
70	OEM_DISP_CE	EXTRA	I/O	External display control request		External display
70	NC		O	Not used. (M-destination only)		Output L-fixed
71	NC	EXTRA	O	Not used.		Output L-fixed
72	P_CON	Power supply	O	External AMP control terminal		POWER ON : H, POWER OFF : L, STANDBY source : L
73	KEY_REQ	toPANEL	I	Communication request from VFD driver		Connect to VFD_PAN_DATA
74	ANT_CON	EXTRA	O	Power antenna control		TUNER ON : H
75	ILLUMI_DET	EXTRA	I	Dimmer Illumi control		L : ON, H : OFF
76	BU_DET	EXTRA	I	Momentary power down detection		With BU : L, No BU, Momentary power down : H
77	ACC_DET	EXTRA	I	ACC Power supply detection		With ACC : L, No ACC : H
78	(PWIC_SVR)	PWIC	O	SVR discharge circuit		When POWER OFF and momentary power down, for 5 sec. : H, Then : L
79	PWIC_MUTE	PWIC	O	Power IC MUTE terminal		When STANDBY source and momentary power down : L, When TEL MUTE : L
80	PWIC_STBY	PWIC	O	Power IC standby control		POWER ON : H, POWER OFF : L
81	LX_CON	LX_M	O	Boot up request to slave unit		H : Slave unit ON, L : Slave unit OFF
82	MUTE_PRE_R	AUDIO	O	PRE_OUT MUTE Rch		When CD MUTE R is L : H (When CD) At momentary power down : H Refer to timing chart. Only with 2-zone and NAVI interruption : L-fixed
83	MUTE_PRE_L	AUDIO	O	PRE_OUT MUTE Lch		When CD MUTE L is L : H (When CD) At momentary power down : H Only with 2-zone and NAVI interruption : L-fixed
84	MUTE_0	AUDIO	I/O	E-VOL FRONT MUTE terminal		L : MUTE ON, Hi-Z : MUTE OFF
85	MUTE_1	AUDIO	I/O	E-VOL REAR MUTE terminal		L : MUTE ON, Hi-Z : MUTE OFF
86	MUTE_2	AUDIO	I/O	E-VOL OTHER MUTE terminal		L : MUTE ON, Hi-Z : MUTE OFF
87	LINE_MUTE	EXTRA	I	Line mute detection		TEL MUTE : 1V or less NAVI MUTE : 2.5V or more
88	NC		O	Not used.		Output L-fixed
89	PWIC_DC_DET	PWIC	I	DC Offset detection terminal		
90	LX_RST	LX_M	O	Hard resetting to slave unit		H : Reset, L : Normal
91	MUTE_C	AUDIO	I/O	E-VOL MUTE terminal (For AFS)		L : MUTE ON, Hi-Z : MUTE OFF
92	NC		O	Not used.		Output L-fixed
93	RDS_NOISE	TUNER	I	FM noise detection terminal		
94	AVSS	µCOM	-			
95	TUN_SMETER	TUNER	I	S-meter output		
96	VREF	µCOM	-			Connect to P_ON
97	AVCC	µCOM	-			Connect to VCC
98	LX_DATA_S	LX_M	I	Data from slave unit		
99	LX_DATA_M	LX_M	I/O	Data to slave unit		
100	LX_CLK	LX_M	I/O	LX BUS clock		

MICROCOMPUTER'S TERMINAL DESCRIPTION

PANEL General Purpose Port Functional Allocation

Pin No.	Active (H/L)	Pin Name	I/O	Application	Processing Operation Description
68	H	RED	O	RED LED control terminal	RED : H GREEN : L
69	H	GREEN	O	GREEN LED control terminal	RED : L GREEN : H
70	L	PON	O	Panel SW5V control terminal	SW5V ON : L SW5V OFF : H
71	H	DBO	O	Triangle LED control terminal (eXcelon only)	DISPLAY BLACKOUT ON : H DISPLAY BLACKOUT OFF : L
71		NC	O	Not used. (Other than eXcelon)	Output L-fixed

Truth Value Table

① CD_MOTOR, CD_LOEJ

	CD_MOTOR	CD_LOEJ
Stop	L	L
Load	H	L
Eject	H	H
Brake	H	Hi-z

② PANEL MOTOR CONTROL

	OPEN	CLOSE	STOP	WAIT
PM_MOT1	L	H	H	L
PM_MOT2	H	L	H	L

③ PANEL MECHANISM CONTROL

	FULL_OPEN	FULL_CLOSE	OTHER
PM_OPEN	H	L	L
PM_CLOSE	H	L	H

④ AFS CONTROL

	RDS_AFS_M	RDS_AFS_L	Condition
AFS LOW	L	L	No sound output with AF search
AFS MID	L	Hi-Z	Sound output with AF search
AFS HIGH	Hi-Z	Hi-Z	Normal reception

⑤ TUNER TYPE

	TUN_TYPE1 (66PIN)	TUN_TYPE2 (67PIN)
Third party model	L	L
OEM Model 1	L	H
OEM Model 2	H	L
OEM Model 3	H	H

⑥ Destination

TYPE3	TYPE2	TYPE1	Destination
0	0	0	KDC-X589
0	0	1	KDC-MP5028
0	1	0	KDC-MP528
0	1	1	KDC-W6531
1	0	0	KDC-W6031
1	0	1	KDC-X7529

TEST MODE

● How to enter the test mode

In order to enter the test mode, reset the unit while simultaneously pressing down [1] and [3] keys.

● How to clear the test mode

The test mode is cleared in case of any of the following events: resetting, momentary power down, Acc OFF, Power OFF and removal of the panel.

● Initial conditions of the test mode

- Source is STANDBY.
- Displays lights are all turned on.
- The volume is at -10dB (The display is 30).
- Loudness (LOUD) is OFF.
- CRSC is OFF, regardless of whether there are switching functions or not.
- SYSTEM Q is NATURAL (=FLAT).
- BEEP will sound anytime with a short push.
- Auxiliary (AUX) is ON.
- SWPRE is SUB WOOFER (2 PREOUT models).

● RDS automatic measurement

Conventionally, the PS display has been visually checked on the production line. This will be replaced by a new processing. The PS data will be received and the PS contents is to be verified as "RDS_TEST" When this is verified, the P-CON terminal is forced to go OFF. (In this case, "_" means blank.)

→ This will be a dedicated test mode processing.

On the P-CON, when power is turned off once and, then, turned on again, (Power OFF → ON) the unit will be restarted.

● Special display when set to TUNER

When in TUNER mode, if any of the following displays appear, there is an abnormality with the front end.

- "TNE2P_NG" : The E2PROM is still with the default (unspecified) value, due to the fact that the front-end being shipped without going through the adjustment process.
- "TNCON_NG" : In this condition, the communication with the front end is not possible.

● Forced switching of K3I

In TUNER FM mode, each time [6] key is pressed, the functions move in the following cycle : AUTO → forced WIDE → forced MIDDLE → force NARROW → AUTO. The initial condition is AUTO and the displays below will appear.

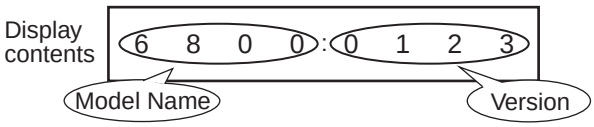
- AUTO : FM1_98.1A
- Forced WIDE : FM1_98.1W
- Forced MIDDLE : FM1_98.1M
- Forced NARROW : FM1_98.1N

● CD receiver test mode specifications

- In the display mode, the initial setting is P-TIME.
- Jumps are made to the following tracks by pressing the ▶▶I key.

  No.9 → No.15 → No.10 → No.11 → No.12 → No.13 → No.22 → No.14 → No.9 (Returns to the beginning)

  It must be noted, however, that when paying MP3 / WMA / AAC disk, which contain 8 files or less, the first track and the following tracks are played in order.
- When I◀◀ key is pressed, it goes down by one track.
- When playing MP3 / WMA / AAC disks, the file format is displayed immediately before playing each file. ("MP3", "WMA", "AAC")
- When a CD is used as a source, by short-pressing [1] key, a jump to the Track No.28 is made.
- When a CD is used as a source, by short-pressing [2] key, a jump to the Track No.14 is made.
- When a CD is used as a source, by short-pressing [3] key, a display of CD mechanism model name and its version is made. When the short-pressing of [3] key is made for the second time, the normal display is resumed. (Time code display)



- When a CD is used as a source, by short-pressing [6] key, a jump to the Track No.15 is made. At the same time, the volume value is set to 25 (2V PRE) and 27 (4V PRE).

● Audio Adjust mode

- By short-pressing [AUD] key, the Audio Adjust mode is entered.
- As with the [AUD] key, [*] key on the remote controller can be used to enter the Audio Adjust mode.
- As for the adjustment items, items for both the AUDIO FUNCTION MODE and SETUP MODE are included.
- The first item is the Fader which is followed by : Balance → Bass Level → Middle Level → Treble Level → (Sub Woofer Level) → HPF Front → HPF Rear → LPF Sub Woofer. (Af-

TEST MODE

ter this, any of the item can be selected)

* Normally, Sub Woofer Level is not included. In this version, however, the Sub Woofer Level is included, and this has been already arranged.

- With the remote controller, continuous forwarding is prohibited.
- Using the VOL knob, the Fader is to be adjusted to the following three levels : R15 ↔ 0 ↔ F15. (The default value : 0)
- Using the VOL knob, the Balance is to be adjusted to the following three levels : L15 ↔ 0 ↔ R15. (The default value : 0)
- Using the VOL knob, the Sub Woofer Level is to be adjusted to the following three levels : -15 ↔ 0 ↔ +15 . (The default value : 0)
- Using the VOL knob, Bass / Middle / Treble Level is to be adjusted to the following three levels : -8 ↔ 0 ↔ +8 . (The default value : 0)
- Using the VOL knob, the HPF Front / Rear is to be adjusted to the following two levels : Through ↔ 180Hz (or 220Hz). (The default value : Through)
- Using the VOL knob, the LPF Sub Woofer is to be adjusted to the following two levels : 60Hz (or 50Hz) ↔ Through. (The default value : Through)
- Using the VOL knob, the Sub Woofer Phase is to be adjusted to the following two levels : Reverse ↔ Normal . (The default value : Normal)
- Using the VOL knob, the Volume Offset is to be adjusted to the following two levels : -8 ↔ 0. (The default value : 0)
- Using the VOL knob, the Loudness ON / OFF is to be adjusted to the following two levels : OFF ↔ ON. (The default value : OFF)
- Using the VOL knob, the 2 Zone ON / OFF is to be adjusted to the following two levels : OFF ↔ ON. (The default value : OFF)
- Items of Bass f / Bass Q / Bass EXT / Middle f / Middle Q / Treble f are not included in the audio adjustment.

● MENU Items

- By short-pressing [Q] key, MENU can be entered.
- The [DNPP/SBF] and [DIRECT] keys on the remote controller can also be used to enter the MENU.
- With the remote controller, continuous forwarding is prohibited.
- When a CD is used as a source, the default item will be the F/W Version. (DXM-6800 mechanism installed models.)

* DXM-6800 : X92-5100-00

● 2-ZONE Items

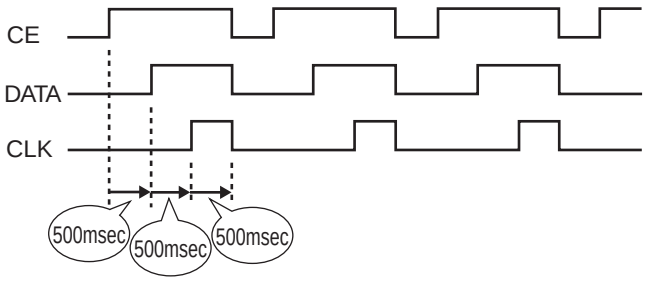
- When using sources other than the STANDBY source, using a short-press on [AUTO] / [TI] key, 2-ZONE ON / OFF is achieved.
  (Since built-in AUX function is not available with KDC-X589 / KDC-X7529, this is effective only when CA-C1AX is connected.)

● Backup Current Measurement

When reset in Acc OFF (Back Up ON) condition, MUTE terminal goes off after 2 seconds, instead of 15 seconds. (During this time, the CD mechanism does not function.)

● OPEL Communication Items

During the test mode, OPEL communication line outputs the following.
(At every 500msec, the output condition of the communication line will be switched.)



● Special display when all lights are on

When all lights are on with the STANDBY source, the following displays are made when the keys shown below are pressed.

[1] Key	Version display (Display) 413K-1.02 ["Development Name" - "Version"]
[2] Key	Serial number display (8 digits) (Display) xxxxxxxx
[3] Key	Short-press : Power ON hours is displayed. During Power On hours display, by long-pressing for 2 seconds, the Power ON hours is cleared. (Display) PON xxxxx MAX 65535 (Hours)
[4] Key	Short-press : CD operation hours is displayed. During CD operation hours display, by long-pressing for 2 seconds, CD operation hours is cleared. (Display) CDT xxxxx MAX 65535 (Hours)

TEST MODE

[5] Key	Short-press : CD EJECT number of times is displayed. During CD EJECT number of times display, by long-pressing for 2 seconds, CD EJECT number of times display is cleared. (Display) EJC xxxxx MAX 65535 (Times)
[6] Key	Short-press : PANEL Open/close number of times is displayed. (*1) During PANEL Open/close number of times display, by long-pressing for 2 seconds, PANEL Open/close number of times is cleared. (Display) PC xxxxxx MAX 65535 (Times)
[FM] Key	ROM correction version display When E2PROM is not installed : ROM_ERR_ When un-written : ROM_R - - - When data is incompatible : ROM_R*** (Display) ROM_R123
▶▶I Key	AUDIO data default value setting (Display) AUD_INIT
I◀◀ Key	Short-press : CD mechanism error log display (Forward) During CD mechanism error log display : by long-pressing for 2 seconds, all error log information is cleared. (Display) I2C_OK__ → ERR_1-xx → ERR_2-xx → ERR_3-xx → All lights turn on NG (“xx” displays “--” or error codes)

(*1) One count is made when the panel opens to full or when a disc is loaded.

● Initializing AUDIO-related value setting

During STANDBY sourcing, by short-pressing ▶▶I key, AUDIO setting values are returned to the default values.

● Check on FL-tube short-circuit

During STANDBY sourcing, each time [ATT] key is short-pressed, the processing is switched in the following order.:

1. All lights off.
2. At every 125msec, the odd and even number terminals of the grid with the largest numbers are lighted.
3. Only odd number terminals are lighted.
4. Only even number terminals are lighted.
5. All lights are lighted.

* After No 5, the processing goes back to No. 1 and this is repeated.

● Other

- At Power ON, “CODE_OFF”, “CODE_ON” displays will not be made.
- During STANDBY sourcing, by short-pressing [AUTO] / [TI] key, GREEN/RED of the key illumination is switched.
  With KDC-X589 / KDC-X7529 models, which are installed with Display Blackout function, switching will be made in the following order :

KDC-X589	Key Illumi		Triangle Illumi	
	GREEN	RED	GREEN	RED
①	OFF	ON	OFF	ON
②	OFF	OFF	ON	OFF
③	ON	OFF	OFF	ON
④	OFF	ON	OFF	OFF

KDC-X7529	Key Illumi		Triangle Illumi	
	GREEN	RED	GREEN	RED
①	ON	OFF	OFF	ON
②	OFF	OFF	ON	OFF
③	OFF	ON	OFF	ON
④	OFF	OFF	ON	OFF

* With the hardware configuration, when either GREEN/RED of the key illumination could lights up, the RED of the triangle illumination is to be lighted.
When desiring to light up GREEN of the triangle illumination, turn off both GREEN and RED of the key illumination.

- When staring up in the test mode, LINE MUTE prohibition time is set to 1 second instead of 10 seconds.
- While in the test mode, security jig should not be used to write the security code.
- While in the test mode, serial writing jig should not be used to write the serial number.
- While in the test mode, even when a DC error is detected, the detection information will not be written to the E2PROM.
- While in the test mode, even after an elapse of pre-set time, the backup memory items will not be written to the E2PROM.
- Information Clear mode for Test Mode, backup/installer memory, and CD mechanism error log, In the DC error detection information clear mode, DEMO mode operation will not be conducted.
  Also, in the above mode, the menu of the STANDBY source will not display DEMO ON/OFF switching items.
- While in the test mode, and at the same time, PM_DET terminal is H, the following will apply to the EJECT key, re-

TEST MODE

gardless of whether a disc is in the unit or not.
Panel full OPEN/CLOSE is conducted with a short-push. (Protection time : 3 seconds)
As far as this item is concerned, eject will be achieved by 1 second long-push on the EJECT key.

● Clearing Backup/Installer memory and CD mechanism error log information (E2PROM data clear)

1. While pressing [Q] and [ATT] keys simultaneously, reset to restart. This will initiate the initializing processes of backup/installer memory and CD mechanism error log information.
2. When the initialization process is completed, the following displays will be made.
   Normal completion : "CD_O : AU_O_"
   Abnormal completion1 : "CD_O : AU_X_" --- backup/installer memory, initialization NG
   Abnormal completion2 : "CD_X : AU_O_" --- CD mechanism error log information, initialization NG
   Abnormal completion3 : "CD_X : AU_X_" --- All initialization processes NG
3. While in this mode, even after an elapse of a pre-set time, no backup memory items will be written to the E2PROM.
4. This mode is released by resetting. (What was on the last screen will not be retained.)

● Clearing DC error detection information (E2PROM data clear)

1. While simultaneously pressing down on [3] and [6] keys, reset the unit to enter the DC error display mode.
2. During STANDBY sourcing, the current DC error conditions will be displayed.
   When error detected : "DC_ERR__"
   When error not detected : "DC_OK___"
3. While the error conditions are being displayed, short-press [AUTO] / [TI] keys to clear the detection information. (E2PROM clear)
4. DC Error Display mode is released by resetting. (What was on the last screen will not be retained.)

● Frequency spun switching (K / M type)

From the Power OFF condition, while pressing [1] and [5] keys down simultaneously, press the [SRC] key and turn power ON.

● Security

• Forced Power ON mode (All models)

Even in the case where security is in effect, by simultaneously pressing down on [Q] and [4] keys and resetting, it is possible to turn the power on for 30 minutes only. After an elapses of 30 minutes, restart is possible only by resetting.

• How to register the security code after replacement of the E2PROM (F/E) (Code security models)

1. Enter the test mode. (Refer to the section on "How to Enter the Test Mode.")
2. Enter the MENU. While "SECURITY" is being displayed, long-press ►II key for 1 second and enter the Security Registration mode.
3. Using [FM] / [AM] / I◄◄ / ►►I keys, enter the code.
   [FM] key : Number up / [AM] key : Number down
   ►►I key : Cursor Right / I◄◄ key : Cursor Left
4. Press ►II key for 3 seconds to display "RE-ENTER." Then, re-enter the code using the method in above 4.
5. Press ►II key for 3 seconds to display "APPROVED."
6. Release the test mode. (Refer to the section on "How to Release the Test Mode.")

Note : The security code for this model cannot be deleted by "all clear" command.

• Simplified method of clearing security code

1. When you are requested to enter the security code, while pressing down on [AUTO] key, use a long-press on ►►I key for 3 seconds. (----disappears.)
2. Using the remote controller, input "KCAR."
   Press remote controller [5] key 2 times and then press ►►I key. (Input for "K.")
   Press remote controller [2] key 3 times and then press ►►I key. (Input for "C.")
   Press remote controller [2] key once and then press ►►I key. (Input for "A.")
   Press remote controller [7] key 2 times and then press ►►I key. (Input for "R.")
3. The security is released and the unit enters the STANDBY sourcing mode.
4. If a wrong code is input, the unit goes into the Code Request mode.

HOW TO WRITE THE UNIQUE ID

1. Introduction

The Unique ID is an identification code allocated to each DXM-6800 mechanism unit. When written to the mechanism unit, the ID is stored in the Flash memory area, managed by the DSP.

During servicing of the unit, if and when the mechanism assembly is replaced, the Unique ID of the old unit should be written to the new mechanism assembly. At the same time, after moving the Unique ID, the ID seal must also be moved.

The descriptions herein concern writing Unique ID, using the functions of the DXM-6800 mechanism. It is possible to easily re-write the Unique ID of the mechanism, using this function.

* DXM-6800 : X92-5100-00

2. Unique ID

The Unique ID is an identification code allocated to each DXM-6800 mechanism unit. This ID is consisted of 8-digit hexadecimal numbers.

Example : 9F346D22, 352899AC, etc.

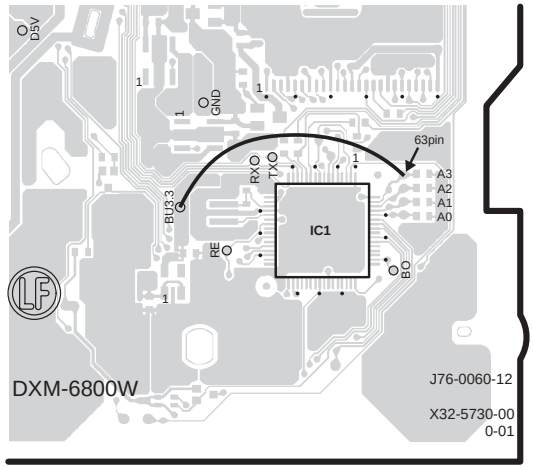
The ID number seal is placed on top of the mechanism cabinet. The 8-digit numbers and characters are the Unique ID assigned to the mechanism. The Unique ID can be confirmed in the MENU mode.

3. How to write the Unique ID, using the unit

In this section, the procedure for writing the Unique ID with the unit is explained. Since this procedure is realized by putting the mechanism into a special mode, the unit must first be reset, immediately before conducting the procedure. At the same time, the display mode of the unit must be set to P-Time, prior to shifting into the write mode. Unless set to P-time, 5 seconds after shifting into the write mode, ID digits and ID numbers will be stopped from displaying.

3.1. How to shift into the Unique ID writing mode using the unit

Procedure 1. Set the 63pin of the mechanism microcomputer (TMP91CU27) to High.
(Connect X32 : IC1 63pin and Back Up 3.3V with a lead.)



Procedure 2. Reset the mechanism microcomputer and boot it up again.
(Resetting the mechanism microcomputer and booting it up again can be achieved by cutting off ACC and Back Up power supply once and then re-starting the unit.)

Procedure 3. Insert a CD and use it as a source (i.e. let the unit start reading the Disc.)

Procedure 4. This completes the start up on Unique ID Write mode.

After shifting into the Unique ID Write mode, the display will be as shown in the figure below.

(In the Unique ID Write mode, actually, ② is displayed first and, after pressing FF key once in the Write mode, ① is displayed.)

Figure1. Initial display of the Unique ID Write mode

Where,

① Unique ID

The contents of what are indicated by x : xx in the time code is the actual contents of the Unique ID.

In sections of minutes : seconds, the Unique ID is indicated in decimal numbers.

The table below is the correspondence between the decimal and hexadecimal numbers.

Decimal numbers	00	01	02	03	04	05	06	07
Hexadecimal numbers	0	1	2	3	4	5	6	7
Decimal numbers	08	09	10	11	12	13	14	15
Hexadecimal numbers	8	9	A	B	C	D	E	F

HOW TO WRITE THE UNIQUE ID

The Unique ID indicated in the [minutes] section is the target Unique ID of the current procedure for writing the ID. The Unique ID in the [seconds] section indicates the next Unique ID that is to replace the current Unique ID. The digit numbers of the Unique ID will be displayed in the Track Number section of ②.

② Unique ID digit number :

The digit numbers of the Unique ID are numbered 1, 2, 3,.... from the left side of the Unique ID.

The contents indicated by T-xx in the track number section are the digit number of the Unique ID displayed currently in ①. The first digit is the digit number of the Unique ID, which is currently worked upon and displayed in the [minute] section of the time code. The second digit is the next digit number of the Unique ID, which is indicated in the [seconds] section of the time code. The values of the T-xx will be changed as the target of the changed Unique ID is moved in the following manner : T-12 → T-23 → T-34 → T-45 ..... → T-78 → T-81 →... The value in the higher digit (i.e. "1" of T-12, for example) is the current target for change in the Unique ID.

After the Unique ID has been changed in all of its digits and as the writing takes place, the progress condition of writing is indicated in the ② section.

The display contents are;

T-99 : Unique ID writing in progress.
T-11 : Unique ID Writing complete (success)
T-22 : Unique ID Writing complete (failure)

Procedure 5. Changing Unique ID write contents
Using Track Up/Down Key, Unique ID contents is changed
(In this unit, CONTROL Key is pushed to the left or right.)
Using FF/FR Key, Unique ID digit to be worked upon is changed.
(In this unit, the CONTROL Key is pushed 1 second or more to the left or right)

Procedure 6. Final write contents is determined and written to the mechanism.
Using Pause key, the ID is written. (In this unit, the center section of the CONTROL Key is to be pressed.)

Procedure 7. 63pin of the mechanism microcomputer (TMP91CU27) is set back to Low.
(Connection lead is removed.)

Procedure 8. Reset the mechanism microcomputer, and start it up.
(Resetting the mechanism microcomputer and booting it up again can be achieved by cutting off ACC and Back Up power supply once and then re-starting the unit.)

Procedure 9. Insert a Compact Disc (CD) and select CD as the source. This determines the type of media to be played. Then, select from the MENU of the unit "ACD Unique ID." This is done to confirm on the write content of the Unique ID.

When re-doing the procedure, start from Procedure 1 again.

3.2. How to change the Unique ID write content: Explanation on the Procedures 5-6.

When shifting to the Unique ID Write mode, the display will be as shown in Figure 1. This is the beginning of writing. At this point, as has been indicated above, the digit for 10's in the T-xx is the Unique ID digit which is subject for change and its contents is shown in the [minutes] section of the time code.

Then, actual change procedure is as follows :

The table below shows the keys to be used.

Track Up key	Push the CONTROL Key to left	Unique ID contents+1 of digit which is currently subject to change.
Track Down key	Push the CONTROL Key to right	Unique ID contents -1 of digit which is currently subject to change.
FF key	Push the CONTROL Key to left for more than 1 second.	Digit subject to change +1
FR key	Push the CONTROL Key to right for more than 1 second	Digit subject to change -1
Pause key	Push the CONTROL Key at center	Writing Unique ID

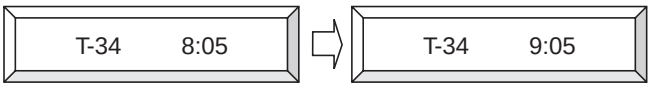
Table1. Key to be used in Unique ID Writing mode

3.3. Example of the case of ID to be written is "94850ED2"

(Example1). Subject digit of the Unique ID to be changed +1

The subject digit is 3, 3 digit Unique ID is 08 (hexadecimal : 8), the value +1 is 09 (hexadecimal : 9).

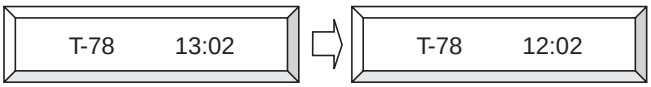
HOW TO WRITE THE UNIQUE ID



Track Up key

(Example2). Subject digit of the Unique ID to be changed -1

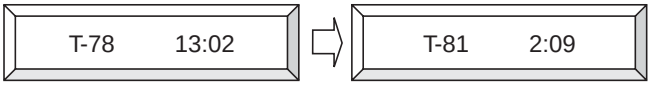
The subject digit is 7, 7 digit Unique ID is 13 (hexadecimal : D), the value -1 is 12 (hexadecimal : C).



Track Down key

(Example3). Digit subject to change +1

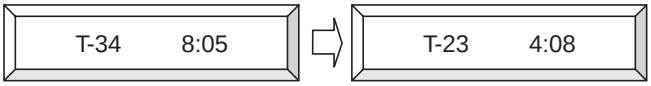
The current digit subject to change is 7, digit subject to change +1 is 8.



FF key

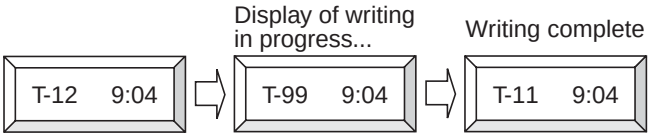
(Example4). Digit subject to change -1

The current digit subject to change is 3, digit subject to change -1 is 2.



FR key

(Example5). Determination of Unique ID (Writing)



Pause key

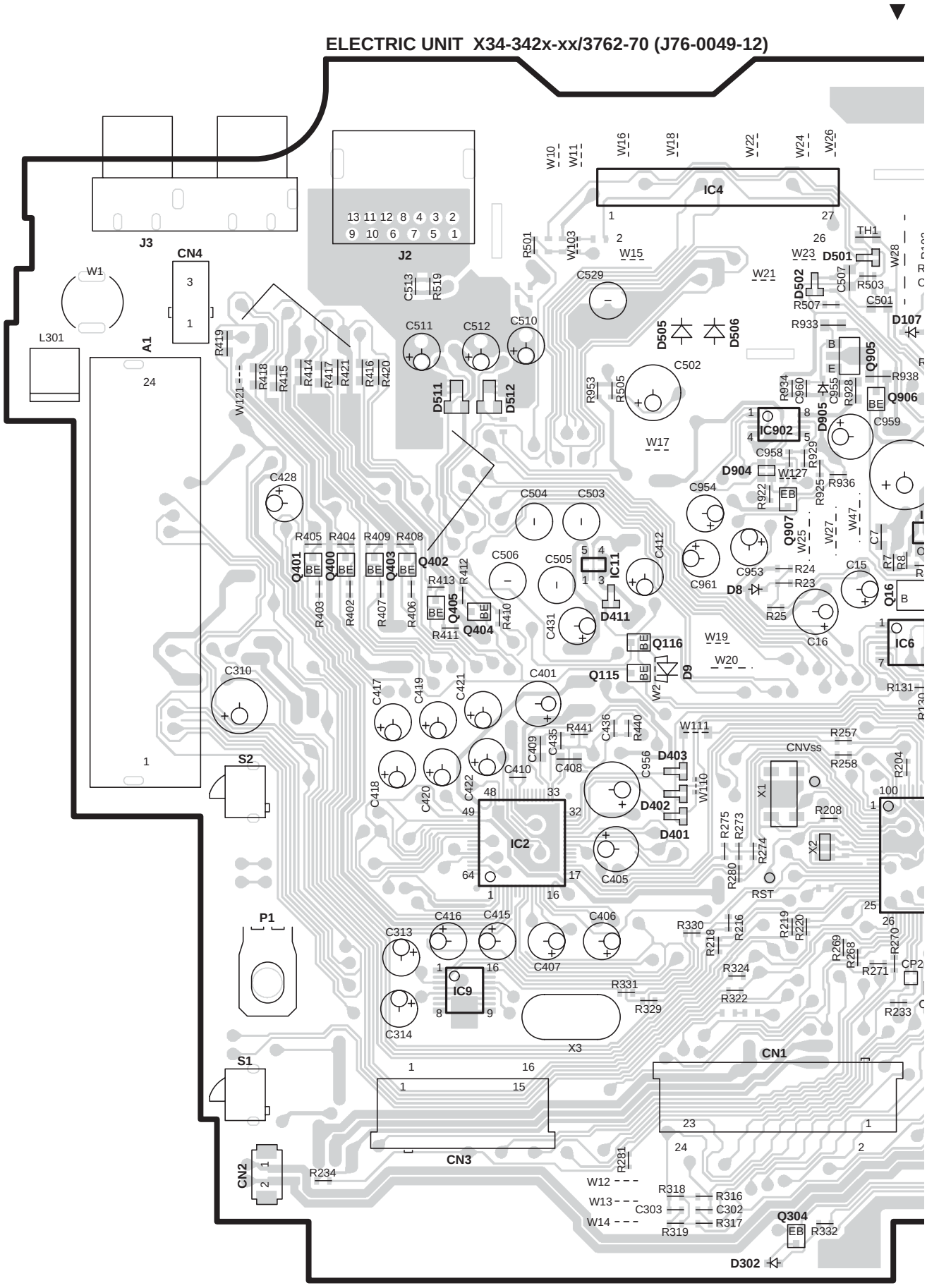
4. Note :

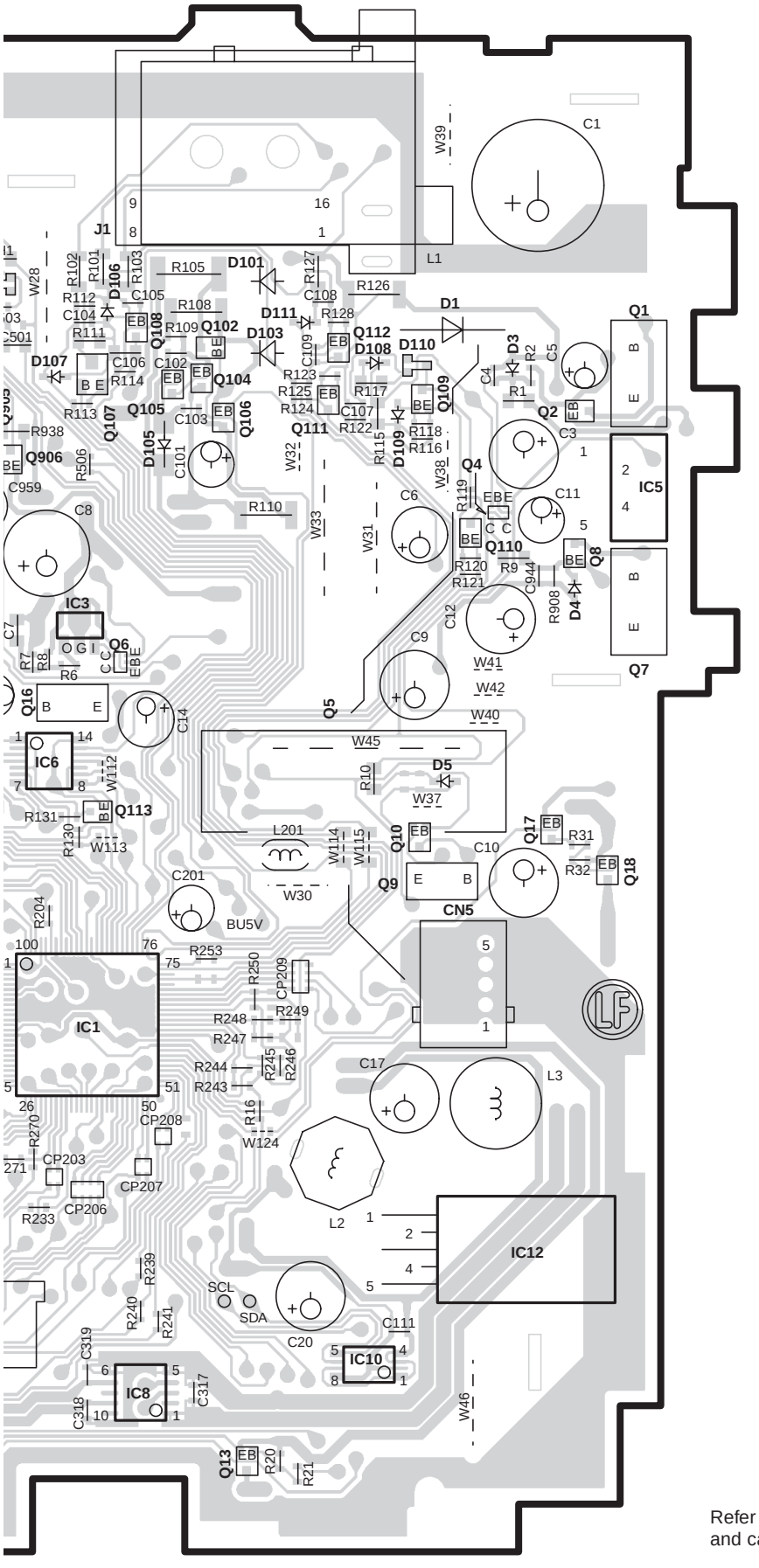
- When in the Unique ID Write mode, the written Unique ID is not displayed. The terminal of the mechanism microcomputer must be put back to what it was before (63pin to Low). Then, reset the microcomputer and re-boot it for confirming the newly written Unique ID is correct.
  How to view the Unique ID
  ① Boot in normal mode (Not the Write mode)
  ② Insert a CD and set the CD as the source
  ③ When reading CD is complete and the media is determined, select “ACD ID” from the unit MENU.

- After writing the Unique ID on the current mechanism, transfer the ID number seal from the old mechanism.

- In order to start the special mode (Unique ID Write mode), the 63pin must be changed to High for mode change. When doing this, BU3.3V should be connected as the power supply. In the special mode, when reset, the setting must be changed to High. Unless this is done, the mode does not work. Therefore, the setting must be completed as indicated.

PC BOARD (COMPONENT SIDE VIEW)





X34-342x-xx/3762-70

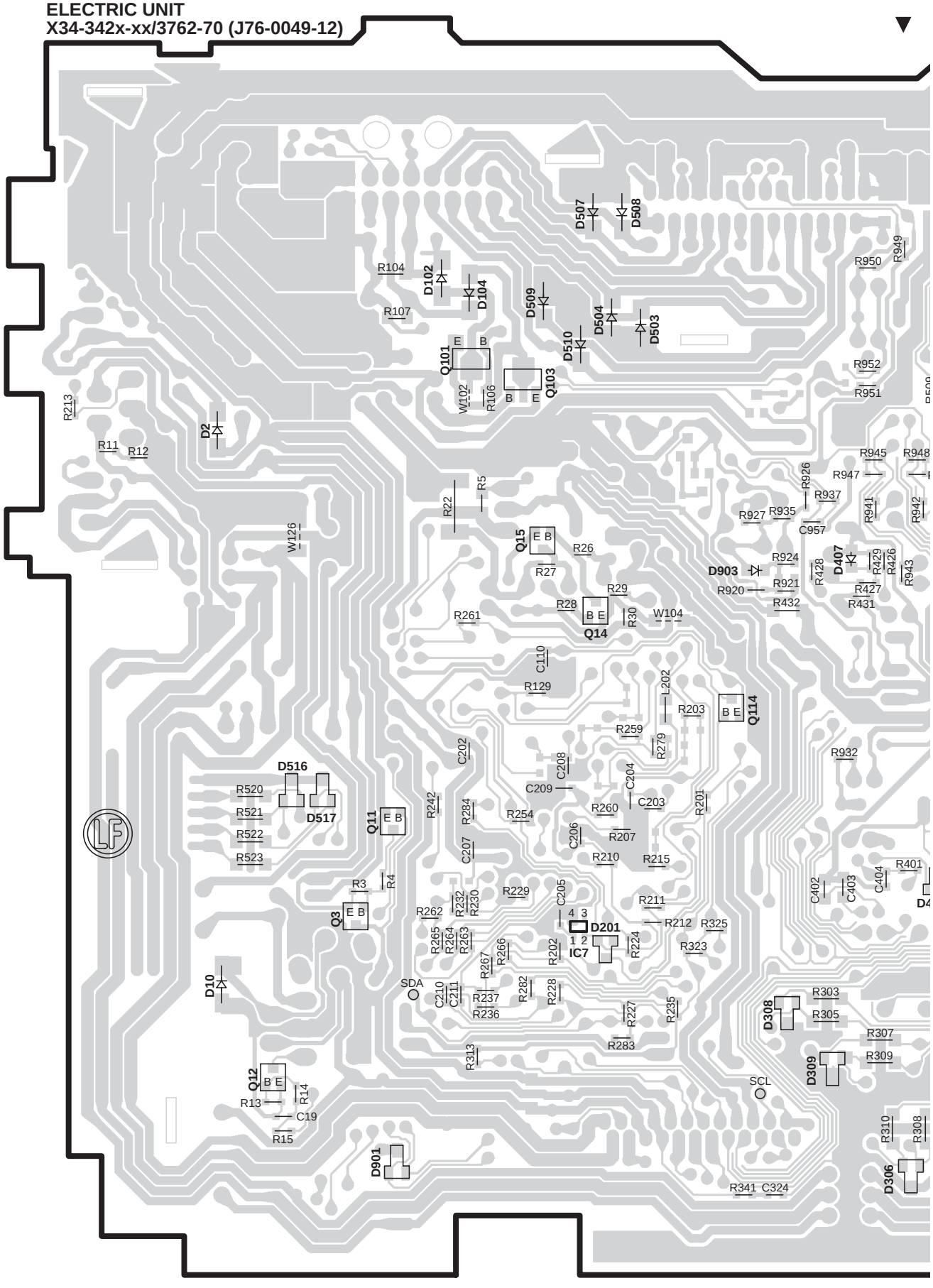
Ref. No.	Address	Ref. No.	Address
IC1	5F	Q18	5H
IC2	5D	Q102	2F
IC3	4F	Q104	3F
IC4	2D	Q105	3F
IC5	3H	Q106	3F
IC6	4F	Q107	3F
IC8	7F	Q108	2F
IC9	6C	Q109	3G
IC10	6G	Q110	3G
IC11	4D	Q111	3G
IC12	6H	Q112	2G
IC902	3E	Q113	4F
Q1	2H	Q115	4D
Q2	3H	Q116	4D
Q4	3G	Q304	7E
Q5	4G	Q400	4C
Q6	4F	Q401	4B
Q7	4H	Q402	4C
Q8	3H	Q403	4C
Q9	5G	Q404	4C
Q10	4G	Q405	4C
Q13	7F	Q905	3E
Q16	4E	Q906	3F
Q17	4H	Q907	4E

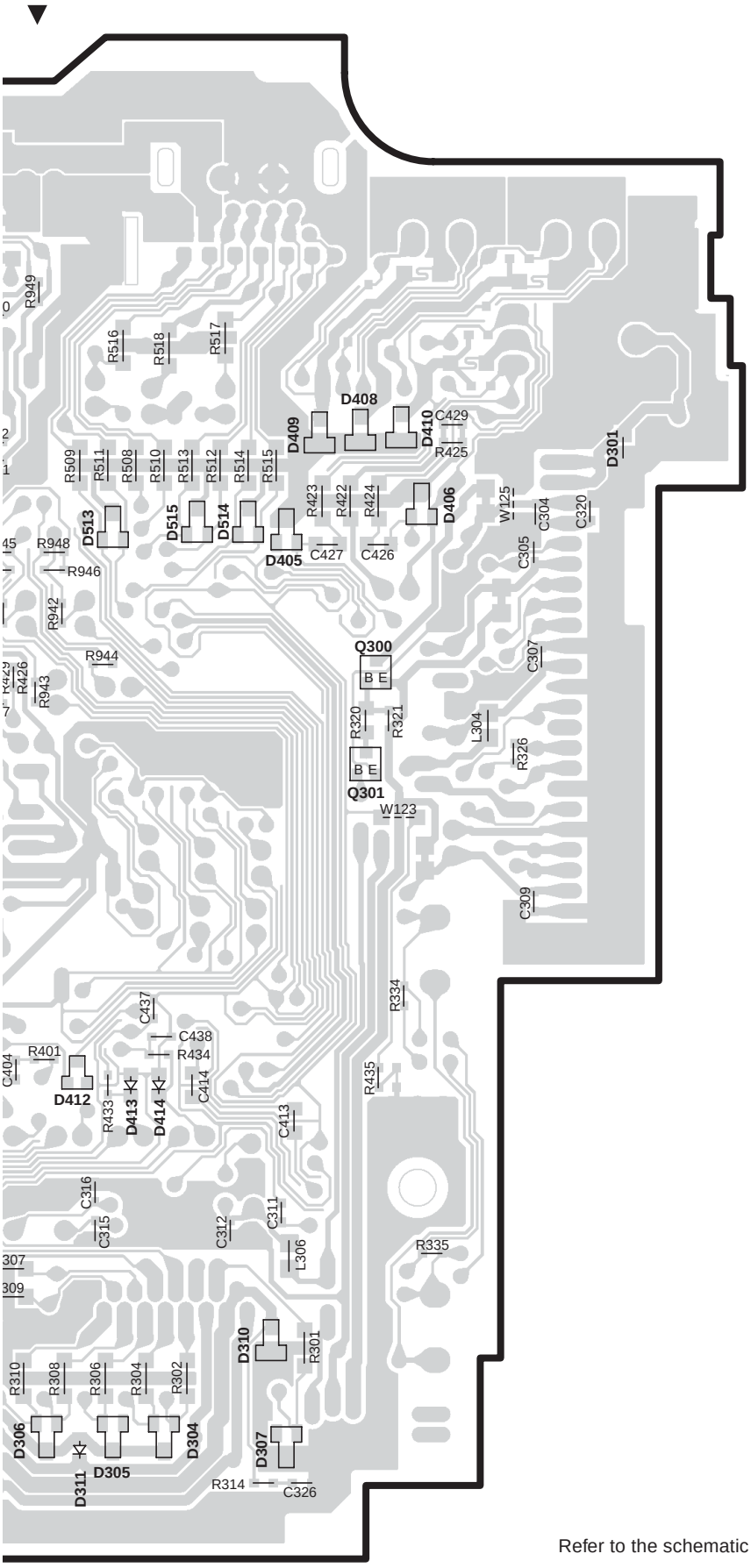
Refer to the schematic diagram for the values of resistors and capacitors.

KDC-W6531/W6531Y
/X589/X7529

PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT
X34-342x-xx/3762-70 (J76-0049-12)





X34-342x-xx/3762-70

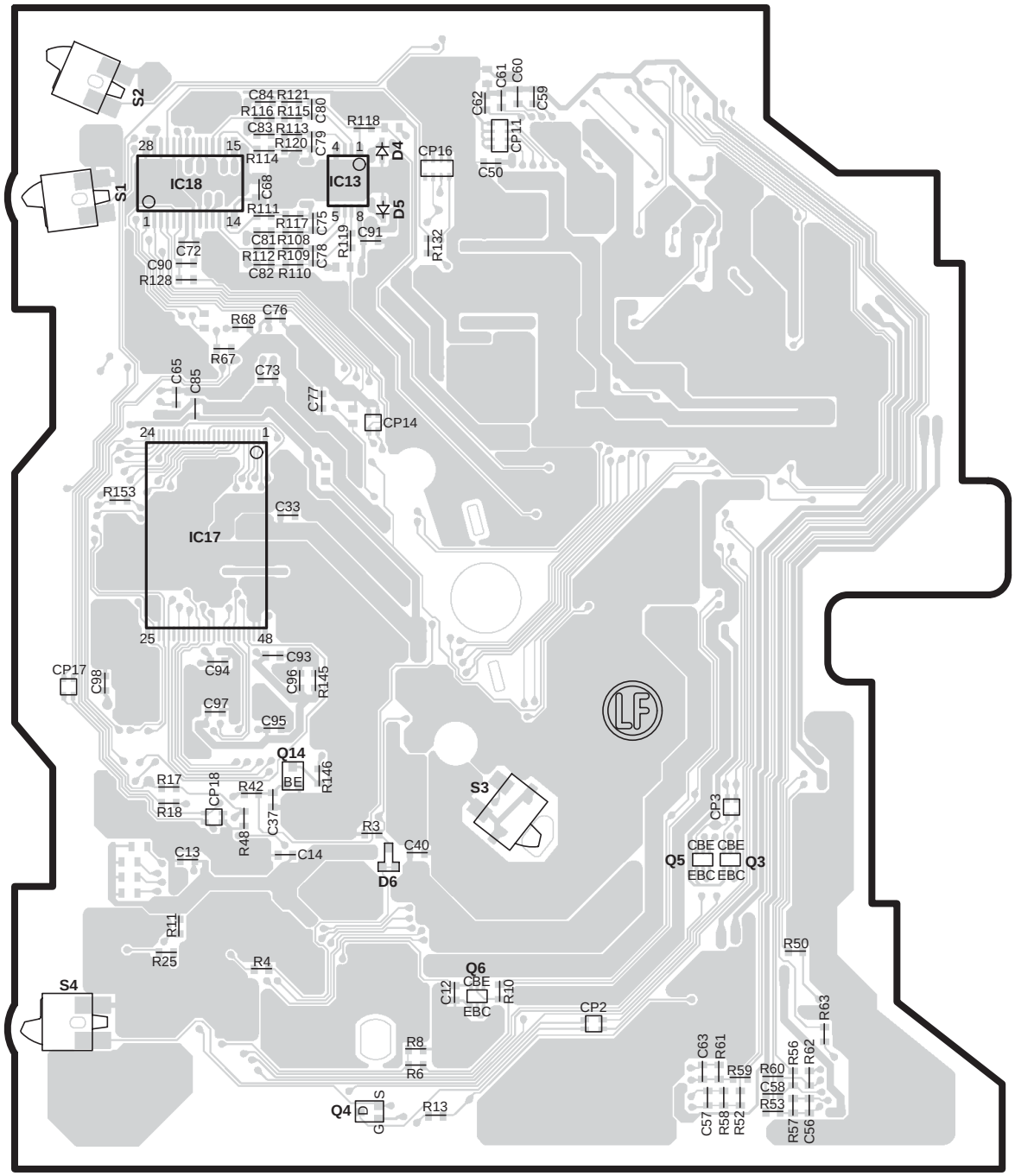
Ref. No.	Address
IC7	6N
Q3	5M
Q11	5M
Q12	6L
Q14	4N
Q15	4N
Q101	3M
Q103	3N
Q114	4O
Q300	4Q
Q301	4Q

Refer to the schematic diagram for the values of resistors and capacitors.

KDC-W6531/W6531Y
/X589/X7529

PC BOARD (COMPONENT SIDE VIEW)

CD PLAYER UNIT X32-5730-00 (J76-0060-12)



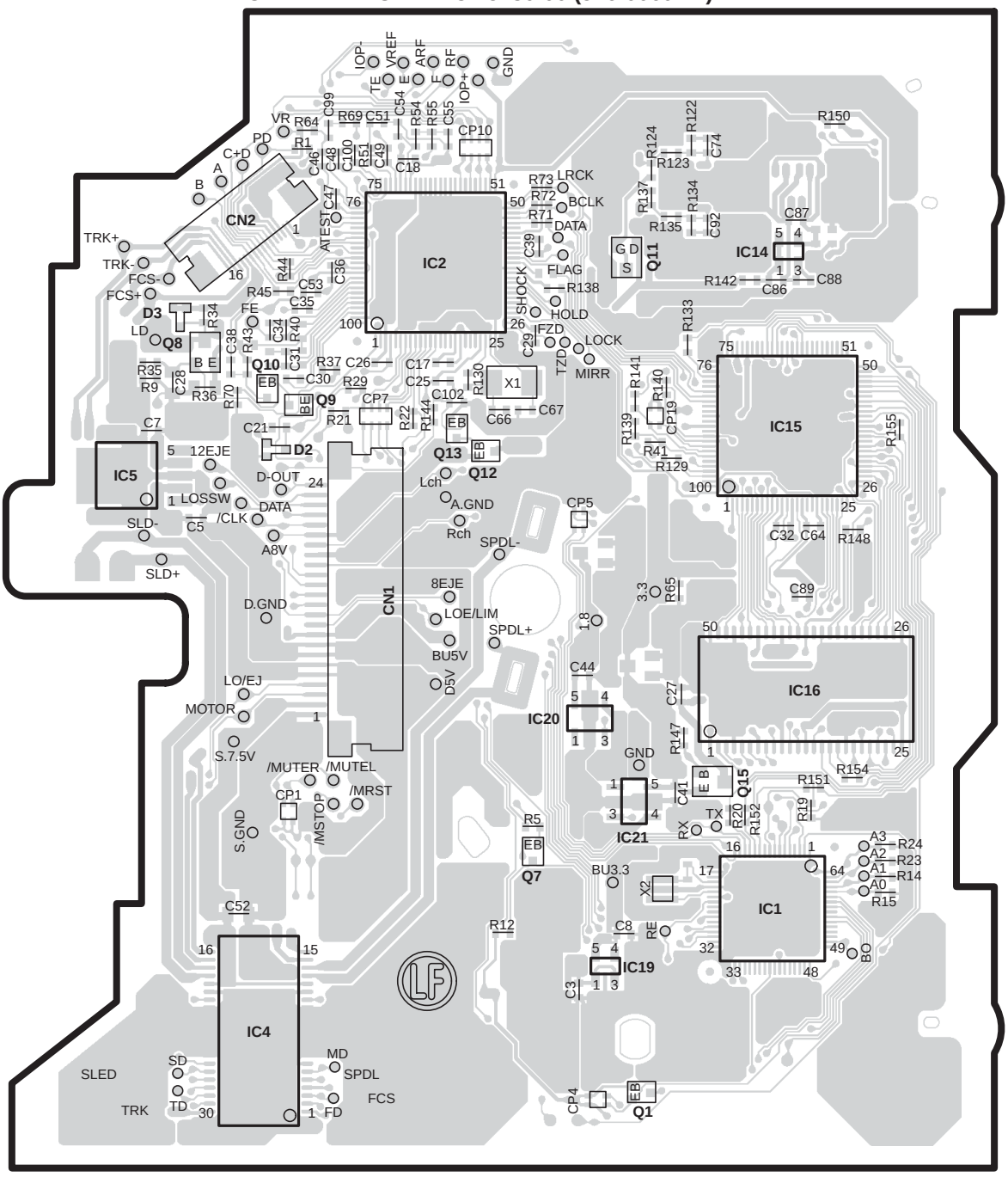
X32-5730-00

Ref. No.	Address	Ref. No.	Address
IC13	2W	Q4	6W
IC17	3V	Q5	5X
IC18	2V	Q6	5W
Q3	5X	Q14	4V

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

CD PLAYER UNIT X32-5730-00 (J76-0060-12)



X32-5730-00

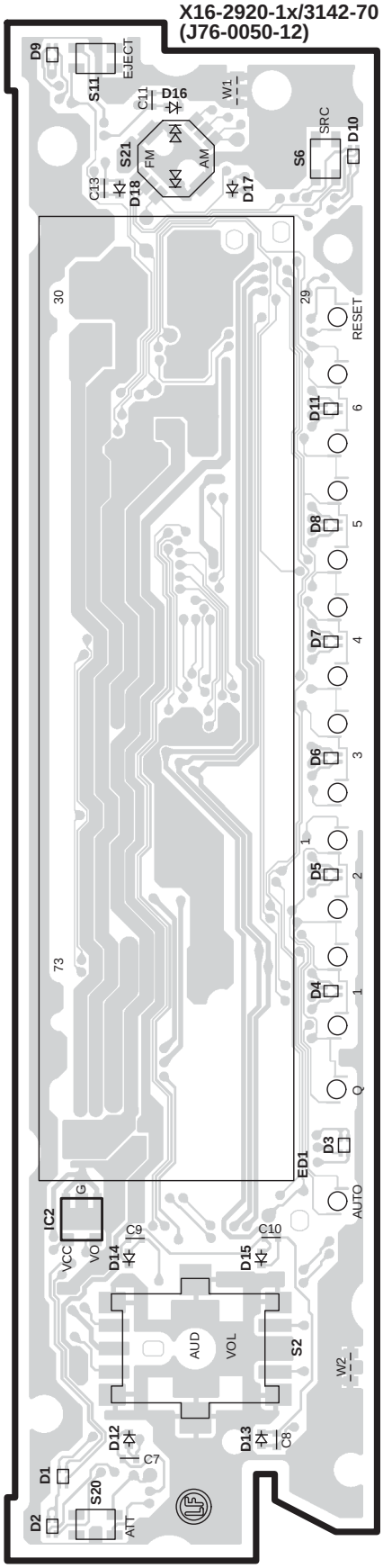
Ref. No.	Address	Ref. No.	Address
IC1	5AC	Q1	6AB
IC2	2AA	Q7	5AB
IC4	5AA	Q8	3Z
IC5	3Z	Q9	3AA
IC14	2AC	Q10	3AA
IC15	3AC	Q11	2AB
IC16	4AC	Q12	3AB
IC19	5AB	Q13	3AB
IC20	4AB	Q15	4AC
IC21	5AB		

Refer to the schematic diagram for the values of resistors and capacitors.

KDC-W6531/W6531Y
/X589/X7529

PC BOARD
(COMPONENT SIDE VIEW)

SWITCH UNIT
X16-2920-1x/3142-70
(J76-0050-12)

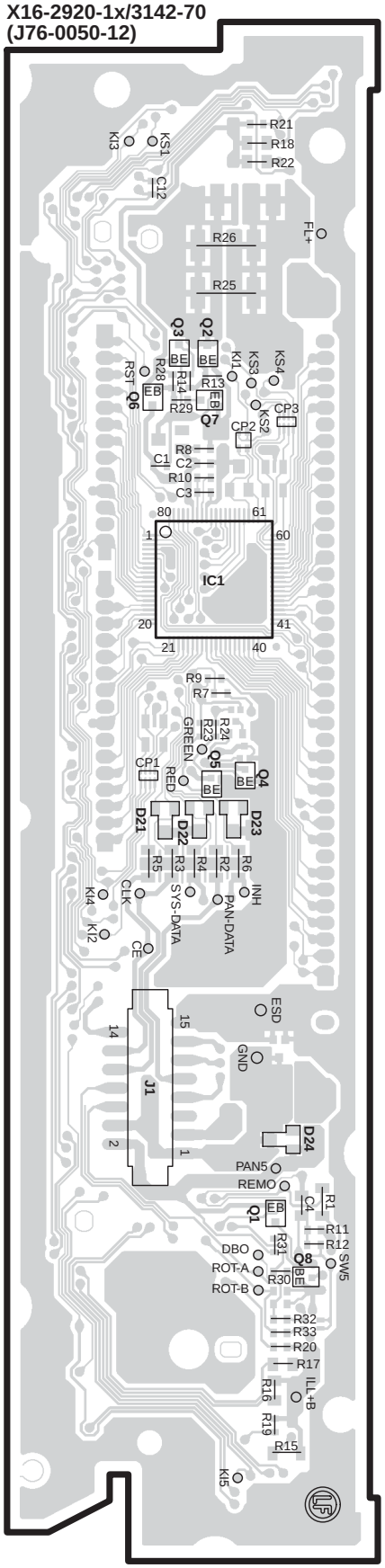


X16-2920-1x/3142-70

Ref. No.	Address
IC2	6AE

(FOIL SIDE VIEW)

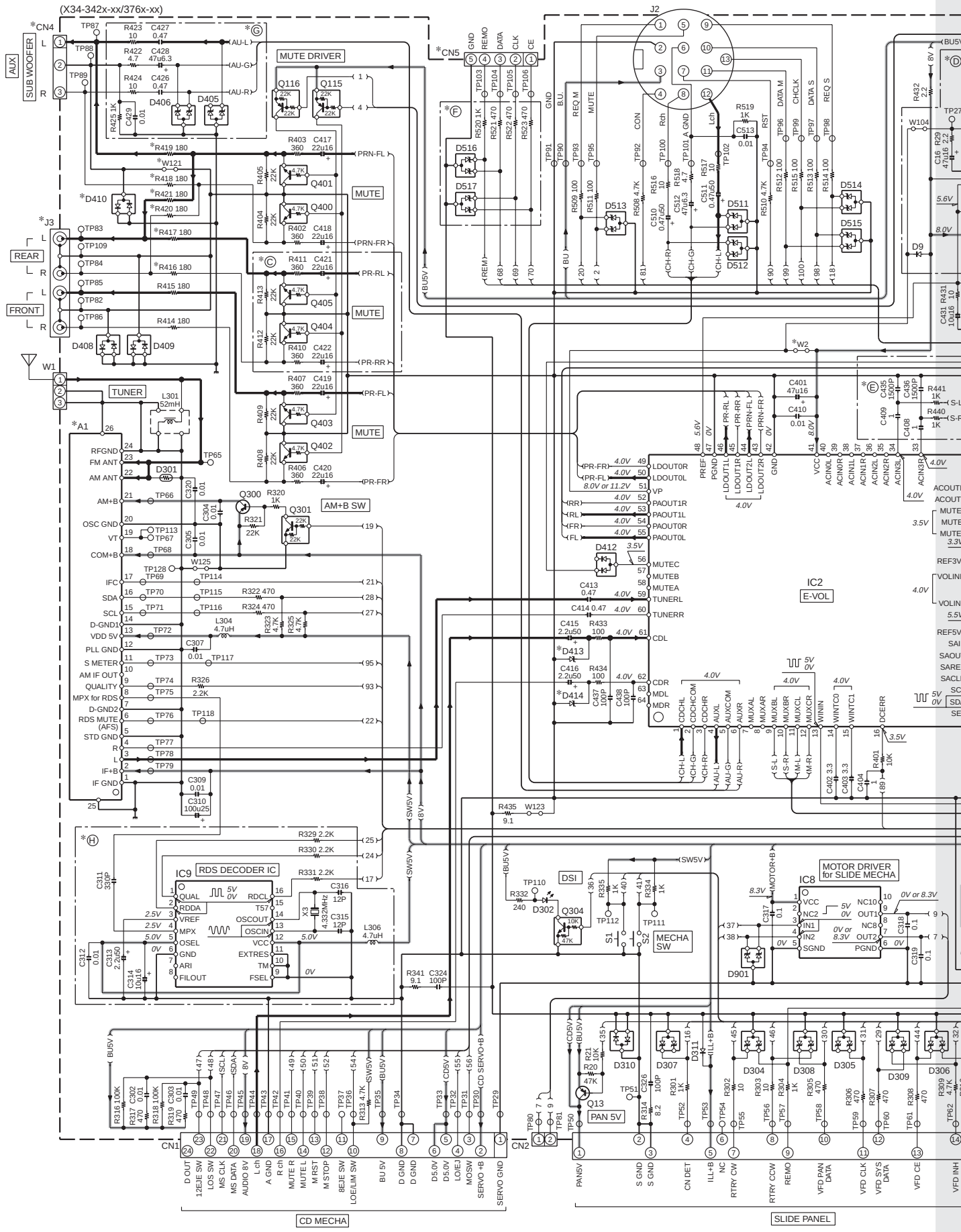
SWITCH UNIT
X16-2920-1x/3142-70
(J76-0050-12)



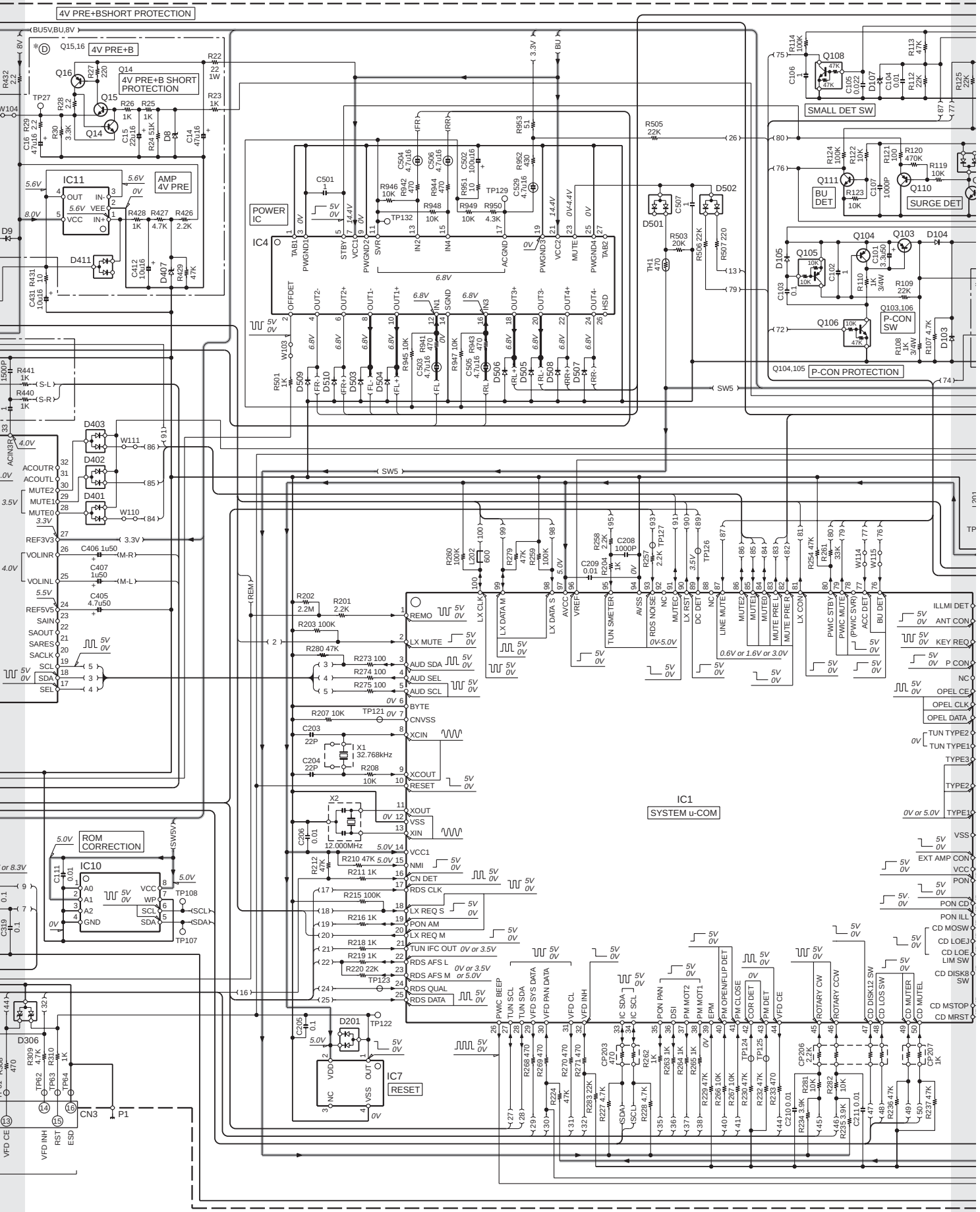
X16-2920-1x/3142-70

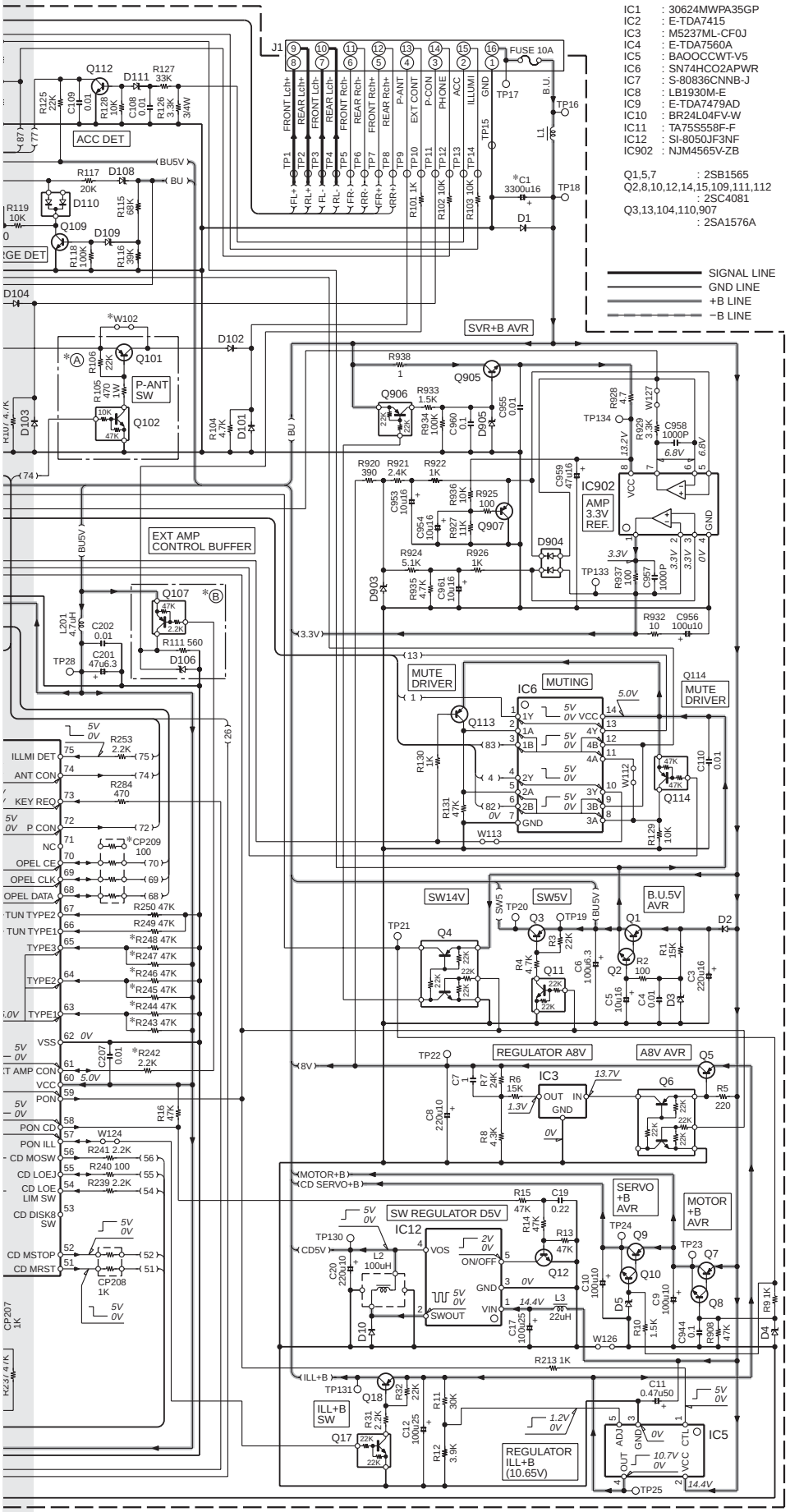
Ref. No.	Address
IC1	3AH
Q1	6AH
Q2	3AH
Q3	3AH
Q4	4AH
Q5	4AH
Q6	3AH
Q7	3AH
Q8	6AH

Refer to the schematic diagram for the values of resistors and capacitors.


(X34-342x-xx/376x-xx)
CN4
AUX
SUB WOOFER
REAR
FRONT
MUTE DRIVER
TUNER
AM+B SW
RDS DECODER IC
IC9
IC2
E-VOL
IC8
MOTOR DRIVER for SLIDE MECHA
DSI
MECHA SW
PAN 5V
CN1
CN2
CD MECHA
SLIDE PANEL

KDC-W6531/W6531Y /X589/X7529





(X34-342x-xx) MODEL NAME	DESTINATION	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	A1	C1	CN4	CN5	CP209	D410	D413, 414	J3	R242, 420-421	R243, 245-248	R244, 246,247	R416, 419	W2, 102	W121
KDC-X589	K	0-10	YES	YES	YES	YES	YES	YES	YES	—	X86-3840-11	C90-6727	YES	—	YES	YES	—	E63-0897(G)	YES	—	—	YES	—	YES
KDC-MP5028	K	0-11	YES	—	YES	YES	YES	YES	YES	—	X86-3840-11	C90-6746	YES	—	YES	—	—	E63-0896(N)	—	YES	—	—	—	—
KDC-MP528	K	0-12	YES	—	—	YES	YES	YES	YES	—	X86-3840-11	C90-6746	YES	—	YES	—	—	E63-0896(N)	—	YES	—	—	—	—
KDC-W6531Y	E	2-71	—	YES	—	—	YES	YES	—	YES	X86-3842-70	C90-6746	—	YES	YES	—	—	E63-0896(N)	YES	—	—	YES	YES	YES
KDC-W6031Y	E	2-72	—	YES	—	—	YES	YES	—	YES	X86-3842-70	C90-6746	—	YES	YES	—	—	E63-0896(N)	YES	—	—	YES	YES	YES
KDC-X7529	M	0-21	YES	YES	YES	YES	YES	YES	—	—	X86-3840-11	C90-6727	YES	—	YES	YES	—	E63-0897(G)	YES	—	—	YES	—	YES

(X34-376x-xx) MODEL NAME	DESTINATION	UNIT No.	Ⓐ	Ⓒ	Ⓓ	Ⓔ	Ⓖ	Ⓑ	Ⓕ	Ⓗ	A1	C1	CN4	CN5	CP209	D410, 413,414	J3	R244, 246,247	R416, 419	W2, 102	W121
KDC-W6531	E	2-70	—	—	—	—	—	YES	YES	YES	X86-3842-71	C90-6746	—	YES	YES	—	E63-0896(N)	—	—	YES	—
KDC-W6031	E	2-71	—	—	—	—	—	YES	YES	YES	X86-3842-71	C90-6746	—	YES	YES	—	E63-0896(N)	—	—	YES	—

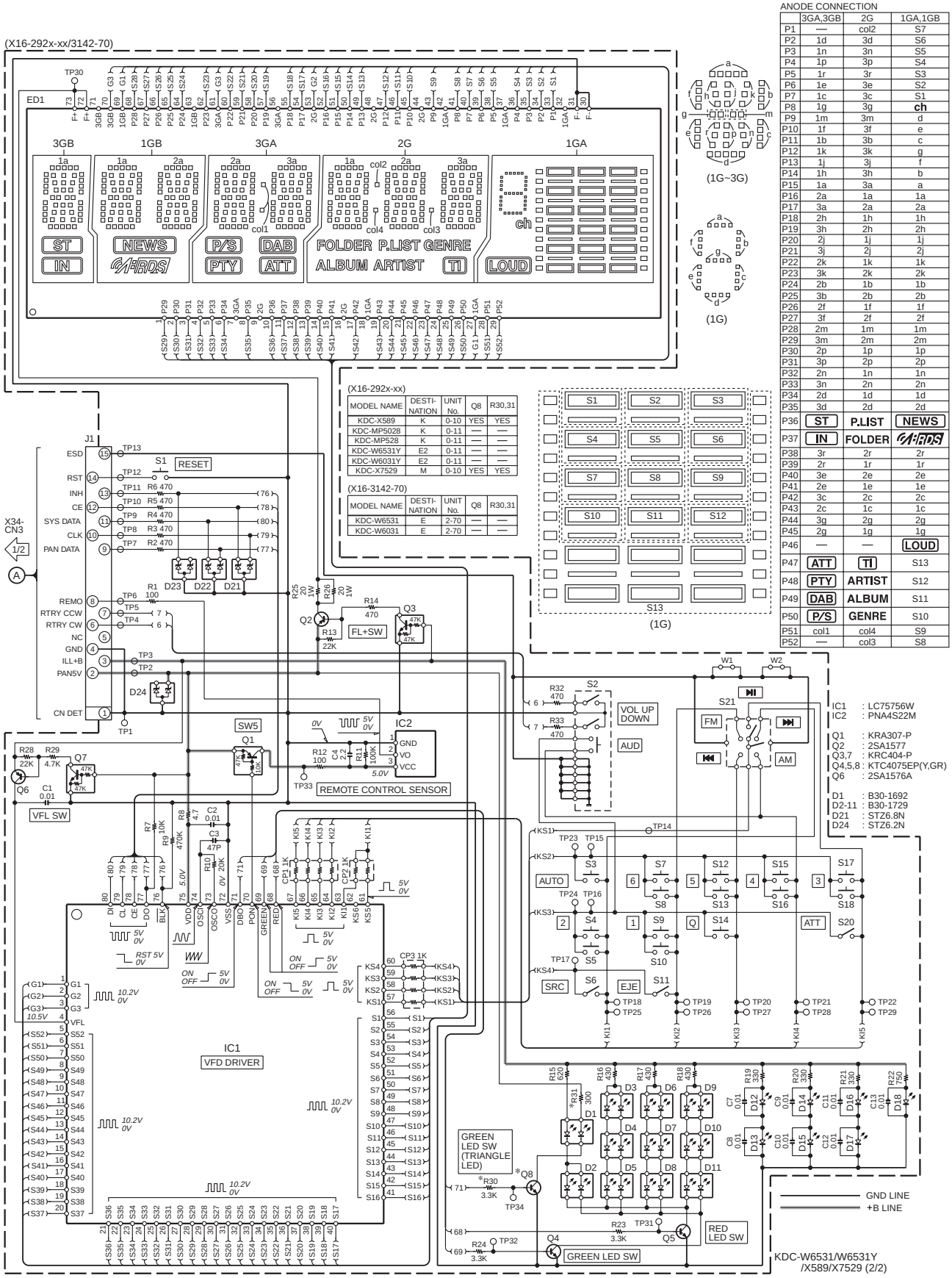
KDC-W6531/W6531Y
/X589/X7529 (1/2)

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KDC-W6531/W6531Y /X589/X7529



ANODE CONNECTION

	3GA,3GB	2G	1GA,1GB
P1	—	col2	S7
P2	1d	3d	S6
P3	1n	3n	S5
P4	1p	3p	S4
P5	1r	3r	S3
P6	1e	3e	S2
P7	1c	3c	S1
P8	1g	3g	ch
P9	1m	3m	d
P10	1f	3f	e
P11	1b	3b	c
P12	1k	3k	g
P13	1j	3j	f
P14	1h	3h	b
P15	1a	3a	a
P16	2a	1a	1a
P17	3a	2a	2a
P18	2h	1h	1h
P19	3h	2h	2h
P20	2j	1j	1j
P21	3j	2j	2j
P22	2k	1k	1k
P23	3k	2k	2k
P24	2b	1b	1b
P25	3b	2b	2b
P26	2f	1f	1f
P27	3f	2f	2f
P28	2m	1m	1m
P29	3m	2m	2m
P30	2p	1p	1p
P31	3p	2p	2p
P32	2n	1n	1n
P33	3n	2n	2n
P34	2d	1d	1d
P35	3d	2d	2d
P36	ST	P.LIST	NEWS
P37	IN	FOLDER	A/RDS
P38	3r	2r	2r
P39	2r	1r	1r
P40	3e	2e	2e
P41	2e	1e	1e
P42	3c	2c	2c
P43	2c	1c	1c
P44	3g	2g	2g
P45	2g	1g	1g
P46	—	—	LOUD
P47	ATT	TI	S13
P48	PTY	ARTIST	S12
P49	DAB	ALBUM	S11
P50	P/S	GENRE	S10
P51	col1	col4	S9
P52	—	col3	S8

(X16-292x-xx)

MODEL NAME	DESTINATION	UNIT No.	Q8	R30,31
KDC-X589	K	0-10	YES	YES
KDC-MP5028	K	0-11	—	—
KDC-MP528	K	0-11	—	—
KDC-W6531Y	E2	0-11	—	—
KDC-W6031Y	E2	0-11	—	—
KDC-X7529	M	0-10	YES	YES

(X16-3142-70)

MODEL NAME	DESTINATION	UNIT No.	Q8	R30,31
KDC-W6531	E	2-70	—	—
KDC-W6031	E	2-70	—	—

IC1 : LC75756W
IC2 : PNA4S22M

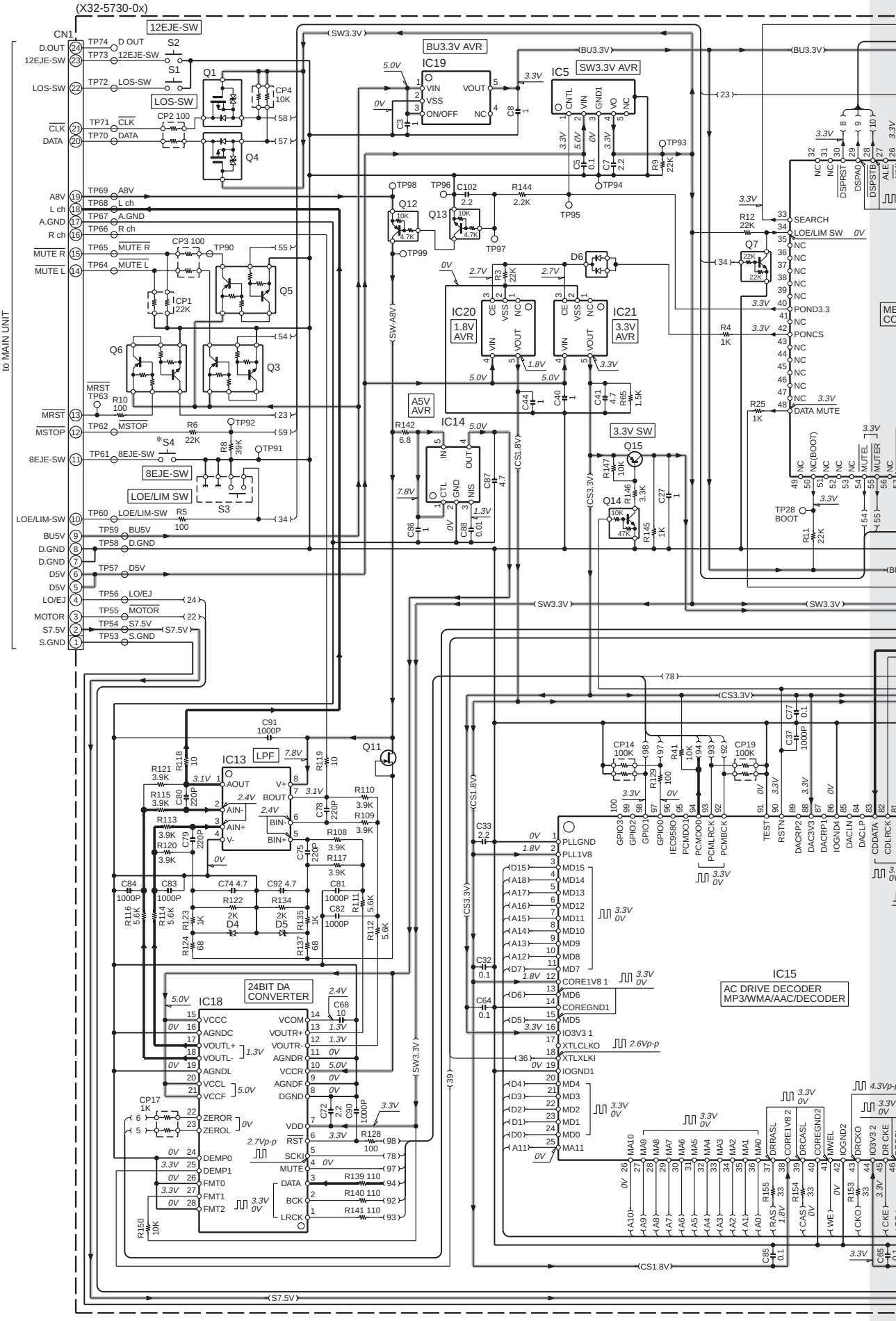
Q1 : KRA307-P
Q2 : 2SA1577
Q3,7 : KRC404-P
Q4,5,8 : KTC4075EP(Y,GR)
Q6 : 2SA1576A

D1 : B30-1692
D2-11 : B30-1729
D21 : STZ6.8N
D24 : STZ6.2N

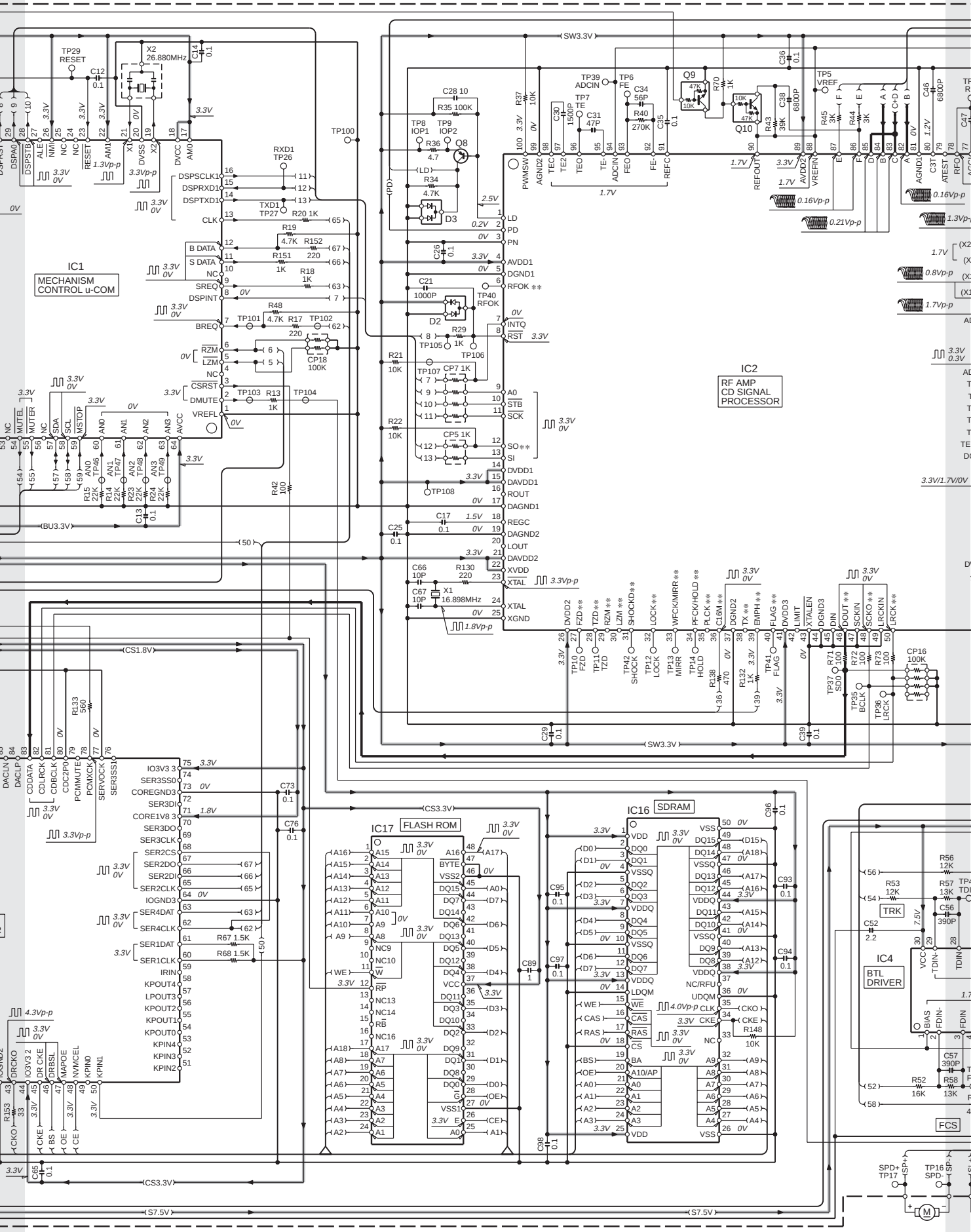
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

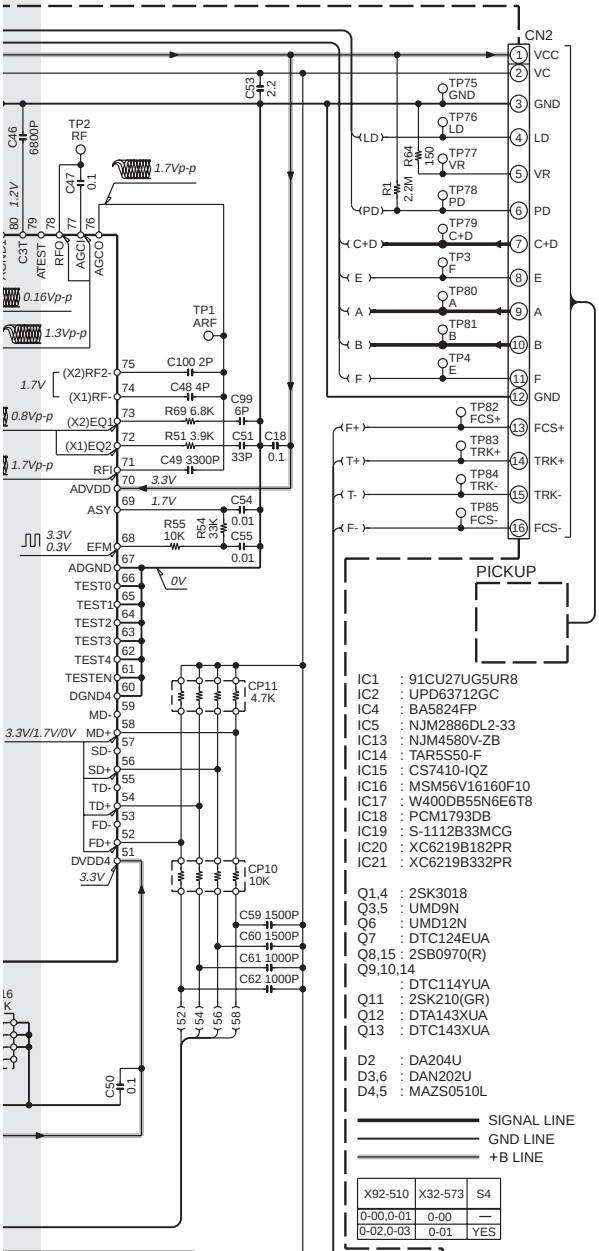
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KDC-W6531/W6531Y /X589/X7529



KDC-W6531/W6531Y /X589/X7529





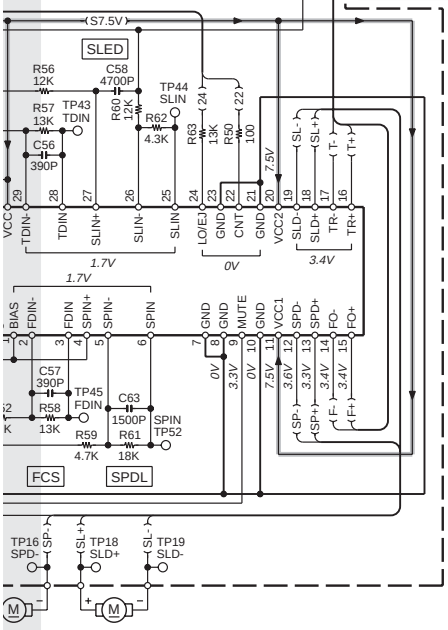
IC1 : 91CU27UG5UR8
IC2 : UPD63712GC
IC4 : BA5824FP
IC5 : NJM2886DL2-33
IC13 : NJM4580V-ZB
IC14 : TAR5S50-F
IC15 : CS7410-IQZ
IC16 : MSM56V16160F10
IC17 : W400DB55N6E6T8
IC18 : PCM1793DB
IC19 : S-1112B33MCG
IC20 : XC6219B182PR
IC21 : XC6219B332PR

Q1,4 : 2SK3018
Q3,5 : UMD9N
Q6 : UMD12N
Q7 : DTC124EUA
Q8,15 : 2SB0970(R)
Q9,10,14 : DTC114YUA
Q11 : 2SK210(GR)
Q12 : DTA143XUA
Q13 : DTC143XUA

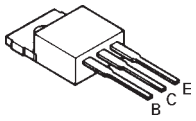
D2 : DA204U
D3,6 : DAN202U
D4,5 : MAZS0510L

SIGNAL LINE
GND LINE
+B LINE

X92-510	X32-573	S4
0-00,0-01	0-00	—
0-02,0-03	0-01	YES

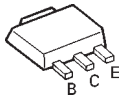


2SB1565

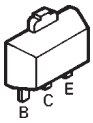


DTA123JK
DTA144EUA
DTC114YUA
DTC143TUA
2SA1576A

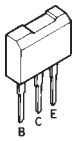
2SB1188



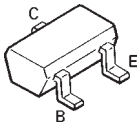
2SC2873-F



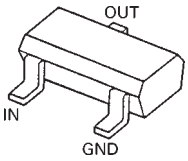
2SB1443



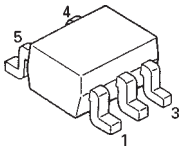
2SA1774
2SC4081



DTA114EUA
DTA124EUA
DTC124EUA
DTC144EUA



UMC2N

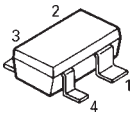


DAN202U

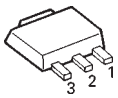
DAP202U
DA204K
DA204U

2SK210

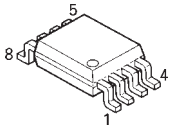
DA227



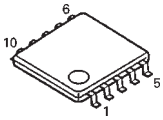
M5237ML-CF0J



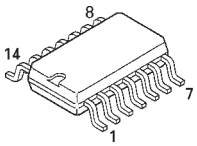
NJM4580V-ZB



LB1930M-E



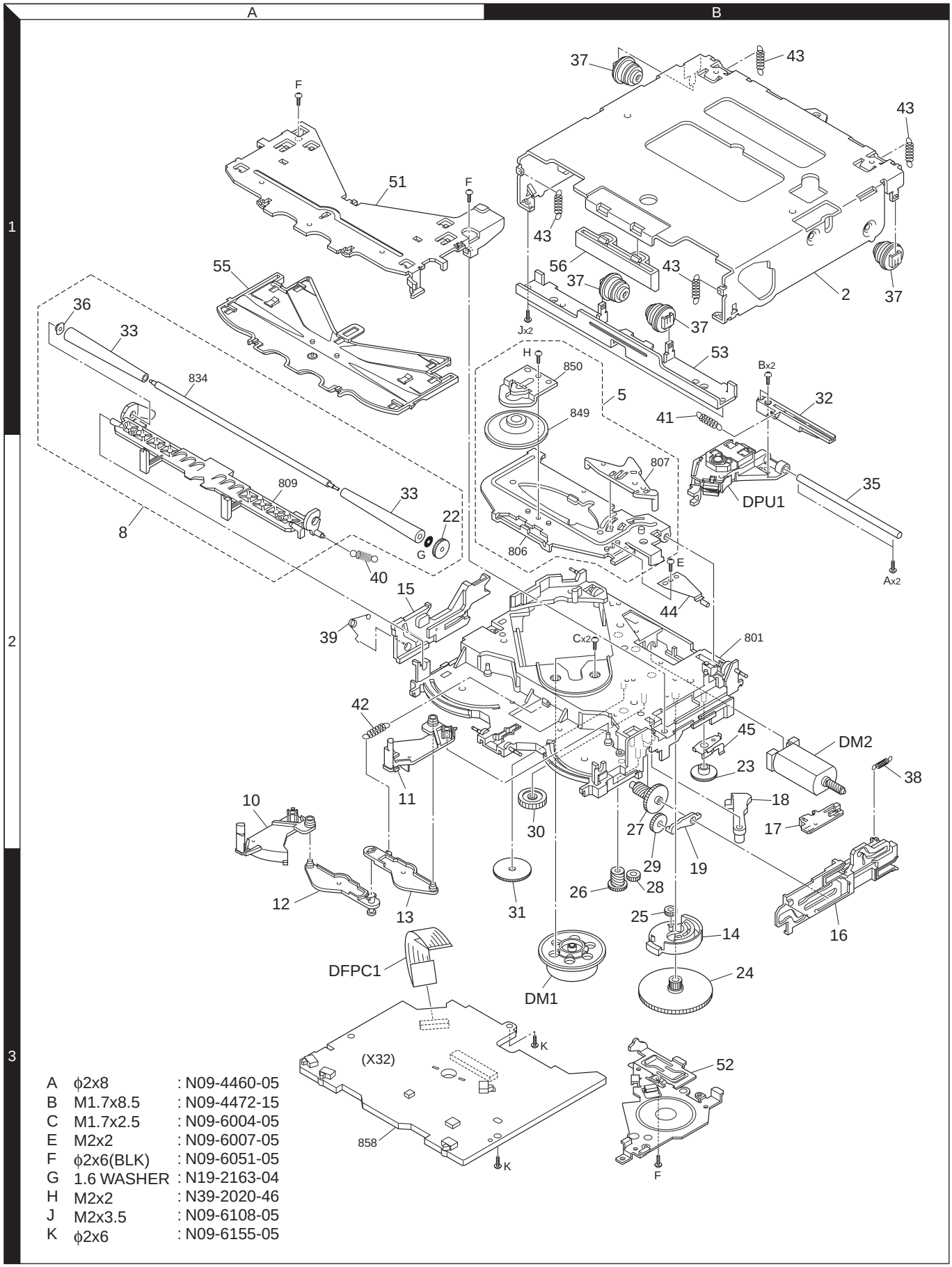
HD74HC02T-E



CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

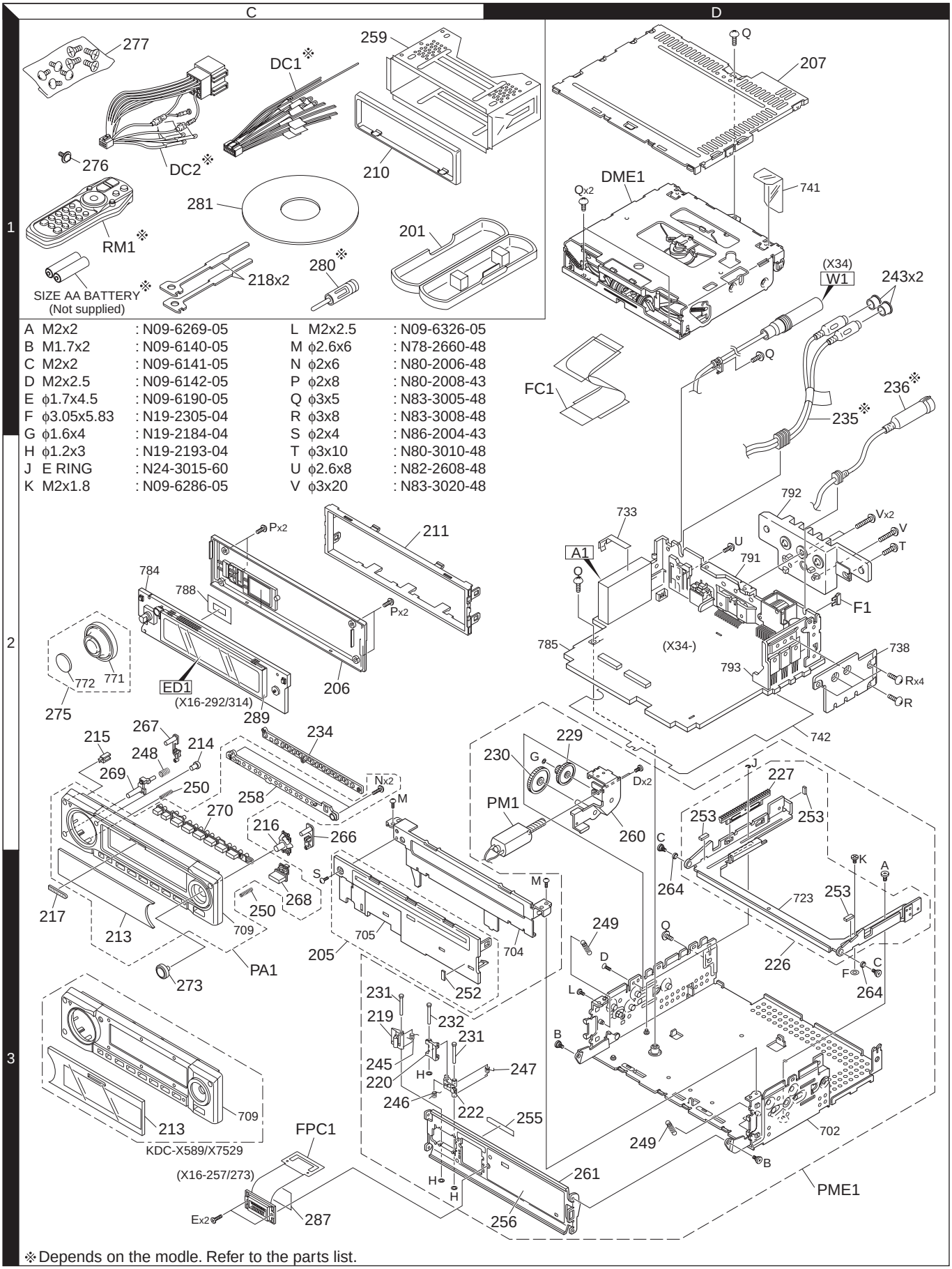
EXPLODED VIEW (CD MECHANISM)



A	ϕ2x8	: N09-4460-05
B	M1.7x8.5	: N09-4472-15
C	M1.7x2.5	: N09-6004-05
E	M2x2	: N09-6007-05
F	ϕ2x6(BLK)	: N09-6051-05
G	1.6 WASHER	: N19-2163-04
H	M2x2	: N39-2020-46
J	M2x3.5	: N09-6108-05
K	ϕ2x6	: N09-6155-05

Refer to the service manual X92-4030-0x (B51-7867-00) for CD mechanism operation.

EXPLODED VIEW (UNIT)



A	M2x2	: N09-6269-05	L	M2x2.5	: N09-6326-05
B	M1.7x2	: N09-6140-05	M	ϕ2.6x6	: N78-2660-48
C	M2x2	: N09-6141-05	N	ϕ2x6	: N80-2006-48
D	M2x2.5	: N09-6142-05	P	ϕ2x8	: N80-2008-43
E	ϕ1.7x4.5	: N09-6190-05	Q	ϕ3x5	: N83-3005-48
F	ϕ3.05x5.83	: N19-2305-04	R	ϕ3x8	: N83-3008-48
G	ϕ1.6x4	: N19-2184-04	S	ϕ2x4	: N86-2004-43
H	ϕ1.2x3	: N19-2193-04	T	ϕ3x10	: N80-3010-48
J	E RING	: N24-3015-60	U	ϕ2.6x8	: N82-2608-48
K	M2x1.8	: N09-6286-05	V	ϕ3x20	: N83-3020-48

※Depends on the modle. Refer to the parts list.

PARTS LIST

✻ New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	Add	New	Parts No.	Description	Destination
KDC-W6531/W6531Y/X589/X7529					
201	1C		A02-2732-03	PLASTIC CABINET ASSY	
205	3C		A22-3023-12	SUB PANEL ASSY	
206	2C	✻	A46-1817-01	REAR COVER	
207	1D		A52-0845-12	TOP PLATE	
PA1	3C	✻	A64-3498-12	PANEL ASSY	K
PA1	3C	✻	A64-3503-12	PANEL ASSY	M1
PA1	3C	✻	A64-3511-12	PANEL ASSY	E1E
PME1	3D	✻	A10-5205-22	CHASSIS ASSY	KM1E1
PME1	3D	✻	A10-5224-22	CHASSIS ASSY	E
RM1	1C	✻	A70-2067-05	REMOTE CONTROLLER ASSY (RC-527)	KM1
-			B46-0100-50	WARRANTY CARD	KM1E
-			B46-0606-04	ID CARD	K
-			B46-0612-14	ID CARD	E1M1E
-			B46-0648-13	USER CARD	K
-			B58-1426-04	CAUTION CARD	K
-		✻	B59-1832-00	SUB-INSTRUCTION MANUAL	KM1E1
-		✻	B59-1833-00	SUB-INSTRUCTION MANUAL	E
-		✻	B64-2975-00	INSTRUCTION MANUAL (ENGLISH)	K
-		✻	B64-2976-00	INSTRUCTION MANUAL (FRE.SPA.)	K
-		✻	B64-2977-00	INSTRUCTION MANUAL (ENG.RUS.)	E1
-		✻	B64-2985-00	INSTRUCTION MANUAL (ENG.T-CHI)	M1
-		✻	B64-2995-00	INSTRUCTION MANUAL (ENGLISH)	E
-		✻	B64-2996-00	INSTRUCTION MANUAL (FRE.GER.)	E
-		✻	B64-2997-00	INSTRUCTION MANUAL (DUT.ITA.)	E
-		✻	B64-2998-00	INSTRUCTION MANUAL (SPA.POR.)	E
210	1C	✻	B07-3125-01	ESCUTCHEON	
211	2C		B07-3095-02	ESCUTCHEON	
213	3C	✻	B10-4645-11	FRONT GLASS	K
213	3C	✻	B10-4650-11	FRONT GLASS	M1
213	3C	✻	B10-4658-11	FRONT GLASS	E1E
214	2C	✻	B10-4662-04	FRONT GLASS	E1E
214	2C	✻	B10-4714-04	FRONT GLASS	KM1
215	2C	✻	B19-2309-03	LIGHTING BOARD	
216	2C	✻	B19-2310-03	LIGHTING BOARD	
217	3C		B43-1518-04	BADGE	
218	1C		D10-4589-04	LEVER	
219	3C		D10-4805-03	LEVER	
220	3C		D10-4806-03	LEVER	
222	3C		D10-4807-13	LEVER	
226	3D	✻	D10-4875-13	SLIDER ASSY	
227	2D		D13-2318-13	RACK (GEAR)	
229	2D		D13-2320-04	GEAR	
230	2D		D13-2321-04	GEAR	
231	3D		D21-2442-04	SHAFT	
232	3C		D21-2443-04	SHAFT	
234	2C	✻	E29-2026-03	CONDUCTIVE RUBBER	
235	2D	✻	E30-6290-15	CORD WITH PINPLUG	KM1
236	1D	✻	E30-6420-05	CORD WITH DIN CONNECTOR	E1E
⚠ DC1	1C	✻	E30-6408-05	DC CORD	KM1
⚠ DC2	1C	✻	E30-6412-05	DC CORD	E1E
FC1	1D		E39-0736-05	FLAT CABLE 24PIN 1MM	
243	1D		F29-0626-04	INSULATING COVER	KM1

Ref. No.	Add	New	Parts No.	Description	Destination
⚠ F1	2D		F52-0006-05	FUSE (MINI BLADE TYPE) 10A	
245	3C		G01-3210-04	TORSION COIL SPRING	
246	3C		G01-3211-04	TORSION COIL SPRING	
247	3D		G01-3212-04	TORSION COIL SPRING	
248	2C		G01-3213-04	COMPRESSION SPRING	
249	3D		G01-3215-04	EXTENSION SPRING	
250	2C	✻	G01-3261-04	COMPRESSION SPRING	
252	3C		G11-3594-04	CUSHION	
253	2D	✻	G11-3646-04	CUSHION	
255	3D		G16-1482-14	SHEET	
256	3D		G16-1483-04	SHEET	
-		✻	H10-4925-02	POLYSTYRENE FOAMED FIXTURE	KM1E1
-		✻	H10-4933-02	POLYSTYRENE FOAMED FIXTURE	E
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	KM1E1
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E
-		✻	H54-3340-03	ITEM CARTON CASE	M1
-		✻	H54-3348-03	ITEM CARTON CASE	K
-		✻	H54-3352-03	ITEM CARTON CASE	E1
-		✻	H54-3396-03	ITEM CARTON CASE	E
258	2C	✻	J19-7053-02	HOLDER	
259	1C		J21-9716-03	MOUNTING HARDWARE ASSY	
260	2D		J22-0114-03	MOUNTING HARDWARE ASSY M BR C	
261	3D	✻	J22-0263-02	MOUNTING HARDWARE	
264	3D		J31-1062-04	COLLAR	
266	2C	✻	K24-4286-03	PUSH KNOB (EJECT)	KM1
266	2C	✻	K24-4287-03	PUSH KNOB (EJECT)	E1E
267	2C	✻	K24-4289-03	PUSH KNOB (ATT)	KM1
267	2C	✻	K24-4290-03	PUSH KNOB (ATT)	E1E
268	3C	✻	K24-4292-03	PUSH KNOB (SRC)	KM1
268	3C	✻	K24-4293-03	PUSH KNOB (SRC)	E1E
269	2C	✻	K24-4295-03	PUSH KNOB (RELEASE)	KM1
269	2C	✻	K24-4296-03	PUSH KNOB (RELEASE)	E1E
270	2C	✻	K25-1711-02	PUSH KNOB (PRESET)	KM1
270	2C	✻	K25-1712-02	PUSH KNOB (PRESET)	E1E
273	3C	✻	K29-7144-03	KEY TOP (CONTROL)	
275	2C	✻	K29-7150-04	KNOB ASSY (VOL)	
276	1C		N09-6212-05	TAPPING SCREW (2X5)	K
276	1C	✻	N09-6280-05	TAPPING SCREW (2X5)	E1M1E
277	1C		N99-1723-05	SCREW SET	K
277	1C	✻	N99-1758-05	SCREW SET	M1
A	3D	✻	N09-6269-05	STEPPED SCREW (M2X2)	
B	3D		N09-6140-05	STEPPED SCREW (M1.7X2)	
C	3D		N09-6141-05	STEPPED SCREW (M2X2)	
D	3D		N09-6142-05	MACHINE SCREW (M2X2.5)	
E	3C		N09-6190-05	TAPPING SCREW (1.7X4.5)	
F	3D	✻	N19-2305-04	FLAT WASHER (3.05X5.83X0.5)	
G	2D		N19-2184-04	FLAT WASHER (1.6X4.0X0.25)	
H	3C		N19-2193-04	FLAT WASHER (1.2X3.0X0.25)	
J	2D		N24-3015-60	E TYPE RETAINING RING	
K	2D	✻	N09-6286-05	STEPPED SCREW (M2X1.8)	
L	3D	✻	N09-6326-05	MACHINE SCREW (M2X2.5)	
M	2C	✻	N78-2660-48	PAN HEAD TAPTITE SCREW	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

KDC-W6531/W6531Y/X589/X7529

Ref. No.	Add	New	Parts No.	Description	Destination
N	2C		N80-2006-48	PAN HEAD TAPTITE SCREW	
P	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
Q	1D		N83-3005-48	PAN HEAD TAPTITE SCREW	
R	2D		N83-3008-48	PAN HEAD TAPTITE SCREW	
S	3C	✻	N86-2004-43	BINDING HEAD TAPTITE SCREW	
280	1C		T90-0523-05	ANTENNA ADAPTOR	E1E
PM1	2D		T42-1086-14	MOTOR ASSY	
281	1C	✻	W01-1643-15	COMPACT DISC	KM1
281	1C	✻	W01-1647-05	COMPACT DISC	E1E
DME1	1D	✻	X92-5100-00	CD MECHANISM ASSY	KM1E1
DME1	1D	✻	X92-5100-01	CD MECHANISM ASSY	E
SUB-CIRCUIT UNIT (X16-2570-10/2732-70)					
J1			E58-0982-05	RECTANGULAR RECEPTACLE	
287	3C		F20-2284-14	INSULATING SHEET	
FPC1	3C		J86-0003-05	FPC (LEAD FREE)	
SWITCH UNIT (X16-2920-1x/3142-70)					
D1			B30-1692-05	LED HR/YG	
D2-11			B30-1605-05	LED 2COLOR PG/RED	
D12-18			B30-1729-05	LED 1608, BLUE	
C1,2			CK73GB1H103K	CHIP C 0.010UF K	
C3			CC73GCH1H470J	CHIP C 47PF J	
C4			CK73FB1A225K	CHIP C 2.2UF K	
C7-13			CK73GB1H103K	CHIP C 0.010UF K	
J1			E59-0839-05	RECTANGULAR PLUG	
289	2C	✻	J19-7055-03	HOLDER	
CP1			RK74HB1J102J	CHIP-COM 1.0K J 1/16W	
CP2			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP3			RK74HB1J102J	CHIP-COM 1.0K J 1/16W	
R1			RK73EB2E101J	CHIP R 100 J 1/4W	
R2-6			RK73EB2E471J	CHIP R 470 J 1/4W	
R7			RK73GB2A103J	CHIP R 10K J 1/10W	
R8			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R9			RK73GB2A474J	CHIP R 470K J 1/10W	
R10			RK73GB2A203J	CHIP R 20K J 1/10W	
R11			RK73GB2A104J	CHIP R 100K J 1/10W	
R12			RK73GB2A101J	CHIP R 100 J 1/10W	
R13			RK73GB2A223J	CHIP R 22K J 1/10W	
R14			RK73GB2A471J	CHIP R 470 J 1/10W	
R15			RK73EB2E621J	CHIP R 620 J 1/4W	
R16-18			RK73FB2B431J	CHIP R 430 J 1/8W	
R19-21			RK73GB2A331J	CHIP R 330 J 1/10W	
R22			RK73FB2B751J	CHIP R 750 J 1/8W	
R23,24			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R25,26		✻	RK73SB3A200J	CHIP R 20 J 1W	
R28			RK73GB2A223J	CHIP R 22K J 1/10W	
R29			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R30			RK73GB2A332J	CHIP R 3.3K J 1/10W	KM1
R31			RK73GB2A301J	CHIP R 300 J 1/10W	KM1
R32,33			RK73GB2A471J	CHIP R 470 J 1/10W	
W1,2			R92-2053-05	CHIP R 0 OHM J 1/8W	

Ref. No.	Add	New	Parts No.	Description	Destination
S6			S70-0901-05	TACT SWITCH	
S11			S70-0901-05	TACT SWITCH	
S20			S70-0901-05	TACT SWITCH	
S21		✻	S70-0926-15	TACT SWITCH	
S2		✻	T99-0456-15	ROTARY ENCODER	
D21-23			STZ6.8N	ZENER DIODE	
D24			STZ6.2N	ZENER DIODE	
ED1		✻	3-BT-226N	FLUORESCENT INDICATOR TUBE	
IC1			LC75756W	MOS-IC	
IC2			PNA4S22M	ANALOGUE IC	
Q1			KRA307-P	TRANSISTOR	
Q2			2SA1577	TRANSISTOR	
Q3			KRC404-P	TRANSISTOR	
Q4,5			KTC4075EP(Y,GR)	TRANSISTOR Y, GR	
Q6			2SA1576A	TRANSISTOR Q, R, S	
Q7			KRC404-P	TRANSISTOR	
Q8			KTC4075EP(Y,GR)	TRANSISTOR Y, GR	KM1
CD PLAYER UNIT (X32-5730-00)					
C3			CK73GB0J105K	CHIP C 1.0UF K	
C5			CK73GB1C104K	CHIP C 0.10UF K	
C7			CK73GB0J225K	CHIP C 2.2UF K	
C8			CK73GB0J105K	CHIP C 1.0UF K	
C12-14			CK73GB1C104K	CHIP C 0.10UF K	
C17,18			CK73GB1C104K	CHIP C 0.10UF K	
C21			CK73GB1H102K	CHIP C 1000PF K	
C25,26			CK73GB1C104K	CHIP C 0.10UF K	
C27			CK73GB0J105K	CHIP C 1.0UF K	
C28			CK73FB0J106M	CHIP C 10UF M	
C29			CK73GB1C104K	CHIP C 0.10UF K	
C30			CK73GB1H152K	CHIP C 1500PF K	
C31			CC73GCH1H470J	CHIP C 47PF J	
C32			CK73GB1C104K	CHIP C 0.10UF K	
C33			CK73GB0J225K	CHIP C 2.2UF K	
C34			CC73GCH1H560J	CHIP C 56PF J	
C35,36			CK73GB1C104K	CHIP C 0.10UF K	
C37			CK73GB1H102K	CHIP C 1000PF K	
C38			CK73GB1H682K	CHIP C 6800PF K	
C39			CK73GB1C104K	CHIP C 0.10UF K	
C40			CK73GB0J105K	CHIP C 1.0UF K	
C41			CK73GB0J475K	CHIP C 4.7UF K	
C44			CK73GB0J105K	CHIP C 1.0UF K	
C46			CK73GB1H682K	CHIP C 6800PF K	
C47			CK73GB1C104K	CHIP C 0.10UF K	
C48			CC73GCH1H040C	CHIP C 4.0PF C	
C49			CK73GB1H332K	CHIP C 3300PF K	
C50			CK73GB1C104K	CHIP C 0.10UF K	
C51			CC73GCH1H330J	CHIP C 33PF J	
C52			CK73FB1A225K	CHIP C 2.2UF K	
C53			CK73GB0J225K	CHIP C 2.2UF K	
C54,55			CK73GB1H103K	CHIP C 0.010UF K	
C56,57			CC73GCH1H391J	CHIP C 390PF J	
C58			CK73GB1H472K	CHIP C 4700PF K	
C59,60			CK73GB1H152K	CHIP C 1500PF K	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

CD PLAYER UNIT (X32-5730-00)

Ref. No.	Add	New	Parts No.	Description	Destination
C61,62			CK73GB1H102K	CHIP C 1000PF K	
C63			CK73GB1H152K	CHIP C 1500PF K	
C64,65			CK73GB1C104K	CHIP C 0.10UF K	
C66,67			CC73GCH1H100D	CHIP C 10PF D	
C68			CK73FB0J106M	CHIP C 10UF M	
C72			CK73GB0J225K	CHIP C 2.2UF K	
C73			CK73GB1C104K	CHIP C 0.10UF K	
C74			CK73GB0J475K	CHIP C 4.7UF K	
C75			CC73GCH1H221J	CHIP C 220PF J	
C76,77			CK73GB1C104K	CHIP C 0.10UF K	
C78-80			CC73GCH1H221J	CHIP C 220PF J	
C81-84			CK73GB1H102K	CHIP C 1000PF K	
C85			CK73GB1C104K	CHIP C 0.10UF K	
C86			CK73GB1A105K	CHIP C 1.0UF K	
C87			CK73GB0J475K	CHIP C 4.7UF K	
C88			CK73GB1H103K	CHIP C 0.010UF K	
C89			CK73GB0J105K	CHIP C 1.0UF K	
C90,91			CK73GB1H102K	CHIP C 1000PF K	
C92			CK73GB0J475K	CHIP C 4.7UF K	
C93-98			CK73GB1C104K	CHIP C 0.10UF K	
C99			CC73GCH1H060D	CHIP C 6.0PF D	
C100			CC73GCH1H020C	CHIP C 2.0PF C	
C102			CK73GB0J225K	CHIP C 2.2UF K	
CN1			E41-2083-05	FLAT CABLE CONNECTOR	
CN2		✻	E41-2297-05	FLAT CABLE CONNECTOR	
X1			L77-2863-05	CRYSTAL RESONATOR (16.899M)	
X2		✻	L78-1209-05	RESONATOR (26.88MHZ)	
CP1		✻	RK74GA1J223J	CHIP-COM 22K J 1/16W	
CP2,3			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP4			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP5			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP7			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
CP10			RK74GB1J103J	CHIP-COM 10K J 1/16W	
CP11			RK74GB1J472J	CHIP-COM 4.7K J 1/16W	
CP14			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP16			RK74GB1J104J	CHIP-COM 100K J 1/16W	
CP17			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP18,19			RK74GA1J104J	CHIP-COM 100K J 1/16W	
R1			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R3			RK73GB2A223J	CHIP R 22K J 1/10W	
R4			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R5			RK73GB2A101J	CHIP R 100 J 1/10W	
R6			RK73GH2A223D	CHIP R 22K D 1/10W	
R8			RK73GH2A393D	CHIP R 39K D 1/10W	
R9			RK73GB2A223J	CHIP R 22K J 1/10W	
R10			RK73GB2A101J	CHIP R 100 J 1/10W	
R11,12			RK73GB2A223J	CHIP R 22K J 1/10W	
R13			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R14,15			RK73GB2A223J	CHIP R 22K J 1/10W	
R17			RK73GB2A221J	CHIP R 220 J 1/10W	
R18			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R19			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R20			RK73GB2A102J	CHIP R 1.0K J 1/10W	

Ref. No.	Add	New	Parts No.	Description	Destination
R21,22			RK73GB2A103J	CHIP R 10K J 1/10W	
R23,24			RK73GB2A223J	CHIP R 22K J 1/10W	
R25			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R34			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R35			RK73GB2A104J	CHIP R 100K J 1/10W	
R36			RK73FB2B4R7J	CHIP R 4.7 J 1/8W	
R37			RK73GB2A103J	CHIP R 10K J 1/10W	
R40			RK73GB2A274J	CHIP R 270K J 1/10W	
R41			RK73GB2A103J	CHIP R 10K J 1/10W	
R42			RK73GB2A101J	CHIP R 100 J 1/10W	
R43			RK73GB2A393J	CHIP R 39K J 1/10W	
R44,45			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R48			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R50			RK73GB2A101J	CHIP R 100 J 1/10W	
R51			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R52			RK73GB2A163J	CHIP R 16K J 1/10W	
R53			RK73GB2A123J	CHIP R 12K J 1/10W	
R54			RK73GB2A333J	CHIP R 33K J 1/10W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R56			RK73GB2A123J	CHIP R 12K J 1/10W	
R57,58			RK73GB2A133J	CHIP R 13K J 1/10W	
R59			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R60			RK73GB2A123J	CHIP R 12K J 1/10W	
R61			RK73GB2A183J	CHIP R 18K J 1/10W	
R62			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R63			RK73GB2A133J	CHIP R 13K J 1/10W	
R64			RK73GB2A151J	CHIP R 150 J 1/10W	
R65			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R67,68			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R69			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R71-73			RK73GB2A101J	CHIP R 100 J 1/10W	
R108-110			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R111,112			RK73GH2A562D	CHIP R 5.6K D 1/10W	
R113			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R114			RK73GH2A562D	CHIP R 5.6K D 1/10W	
R115			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R116			RK73GH2A562D	CHIP R 5.6K D 1/10W	
R117			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R118,119			RK73GH2A100D	CHIP R 10 D 1/10W	
R120,121			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R122			RK73GH2A202D	CHIP R 2.0K D 1/10W	
R123			RK73GH2A102D	CHIP R 1.0K D 1/10W	
R124			RK73GB2A680J	CHIP R 68 J 1/10W	
R128,129			RK73GB2A101J	CHIP R 100 J 1/10W	
R130			RK73GB2A221J	CHIP R 220 J 1/10W	
R132			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R133			RK73GB2A561J	CHIP R 560 J 1/10W	
R134			RK73GH2A202D	CHIP R 2.0K D 1/10W	
R135			RK73GH2A102D	CHIP R 1.0K D 1/10W	
R137			RK73GB2A680J	CHIP R 68 J 1/10W	
R138			RK73GB2A471J	CHIP R 470 J 1/10W	
R139-141		✻	RK73GH2A111D	CHIP R 110 D 1/10W	
R142			RK73GB2A6R8J	CHIP R 6.8 J 1/10W	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

CD PLAYER UNIT (X32-5730-00)

Ref. No.	Add	New	Parts No.	Description	Destination
R144			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R145			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R146			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R147,148			RK73GB2A103J	CHIP R 10K J 1/10W	
R150			RK73GB2A103J	CHIP R 10K J 1/10W	
R151			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R152			RK73GB2A221J	CHIP R 220 J 1/10W	
R153-155			RK73GB2A330J	CHIP R 33 J 1/10W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D2			DA204U	DIODE	
D3			DAN202U	DIODE	
D4,5			MAZS0510L	ZENER DIODE	
D6			DAN202U	DIODE	
IC1		✻	91CU27UG5UR8	MICROCONTROLLER IC	
IC2			UPD63712GC	MOS-IC	
IC4			BA5824FP	ANALOGUE IC	
IC5			NJM2886DL2-33	ANALOGUE IC	
IC13			NJM4580V-ZB	ANALOGUE IC	
IC14			TAR5S50-F	ANALOGUE IC	
IC15		✻	CS7410-IQZ	MOS-IC	
IC16		✻	MSM56V16160F10	DRAM IC	
IC17		✻	W400DB55N6E6T8	ROM IC	
IC18			PCM1793DB	MOS-IC	
IC19			S-1112B33MCG	ANALOGUE IC	
IC20		✻	XC6219B182PR	ANALOGUE IC	
IC21		✻	XC6219B332PR	ANALOGUE IC	
Q1			2SK3018	FET	
Q3			UMD9N	TRANSISTOR	
Q4			2SK3018	FET	
Q5			UMD9N	TRANSISTOR	
Q6			UMD12N	TRANSISTOR	
Q7			DTC124EUA	DIGITAL TRANSISTOR	
Q8		✻	2SB0970 (R)	TRANSISTOR	
Q9,10			DTC114YUA	DIGITAL TRANSISTOR	
Q11			2SK210 (GR)	FET	
Q12			DTA143XUA	DIGITAL TRANSISTOR	
Q13			DTC143XUA	DIGITAL TRANSISTOR	
Q14			DTC114YUA	DIGITAL TRANSISTOR	
Q15		✻	2SB0970 (R)	TRANSISTOR	

ELECTRIC UNIT (X34-342x-xx/3762-70)

Ref. No.	Add	New	Parts No.	Description	Destination
D302			B30-1566-05	LED (1608, RED)	
C1		✻	C90-6727-05	ELECTRO 3300UF 16WV	KM1
C1			C90-6746-05	ELECTRO 3300UF 16WV	E1E
C3			C90-5692-05	ELECTRO 220UF 16WV	
C4			CK73GB1H103K	CHIP C 0.010UF K	
C5			CD04AS1C100M	ELECTRO 10UF 16WV	
C6			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C7			CK73FB1C105K	CHIP C 1.0UF K	
C8			CD04AT1A221M	ELECTRO 220UF 10WV	
C9,10			CD04AS1A101M	ELECTRO 100UF 10WV	
C11			CD04AS1HR47M	ELECTRO 0.47UF 50WV	
C12		✻	CD04BK1E101M	ELECTRO 100UF 25WV	
C14			CD04AS1C470M	ELECTRO 47UF 16WV	KM1
C15			CD04AS1C220M	ELECTRO 22UF 16WV	KM1
C16			CD04AS1C470M	ELECTRO 47UF 16WV	KM1
C17		✻	CD04BK1E101M	ELECTRO 100UF 25WV	
C19		✻	CK73GB1A224K	CHIP C 0.22UF K	
C20		✻	CD04BK1A221M	ELECTRO 220UF 10WV	
C101			CD04AS1H3R3M	ELECTRO 3.3UF 50WV	
C102			CK73GB0J105K	CHIP C 1.0UF K	
C103			CK73GB1H104K	CHIP C 0.10UF K	
C104			CK73GB1H103K	CHIP C 0.010UF K	
C105			CK73GB1E223K	CHIP C 0.022UF K	
C106			CK73FB1C105K	CHIP C 1.0UF K	
C107			CK73GB1H102K	CHIP C 1000PF K	
C108-111			CK73GB1H103K	CHIP C 0.010UF K	
C201			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C202			CK73GB1H103K	CHIP C 0.010UF K	
C203,204			CC73GCH1H220J	CHIP C 22PF J	
C205			CK73GB1H104K	CHIP C 0.10UF K	
C206,207			CK73GB1H103K	CHIP C 0.010UF K	
C208			CK73GB1H102K	CHIP C 1000PF K	
C209-211			CK73GB1H103K	CHIP C 0.010UF K	
C302-305			CK73GB1H103K	CHIP C 0.010UF K	
C307			CK73GB1H103K	CHIP C 0.010UF K	
C309			CK73GB1H103K	CHIP C 0.010UF K	
C310		✻	CD04BK1E101M	ELECTRO 100UF 25WV	
C311			CC73GCH1H331J	CHIP C 330PF J	E1E
C312			CK73GB1H103K	CHIP C 0.010UF K	E1E
C313			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	E1E
C314			CD04AS1C100M	ELECTRO 10UF 16WV	E1E
C315,316			CC73GCH1H120J	CHIP C 12PF J	E1E
C317-319			CK73GB1C104K	CHIP C 0.10UF K	
C320			CK73GB1H103K	CHIP C 0.010UF K	
C324			CC73GCH1H101J	CHIP C 100PF J	
C326			CC73GCH1H101J	CHIP C 100PF J	
C401			CD04AS1C470M	ELECTRO 47UF 16WV	
C402,403			CK73FB1A335K	CHIP C 3.3UF K	
C404			CK73GB1A105K	CHIP C 1.0UF K	
C405			CD04AT1H4R7M	ELECTRO 4.7UF 50WV	
C406,407			CD04AS1H010M	ELECTRO 1UF 50WV	
C408,409			CK73FB1C105K	CHIP C 1.0UF K	KM1
C410			CK73GB1H103K	CHIP C 0.010UF K	
C412			CD04AS1C100M	ELECTRO 10UF 16WV	KM1
C413,414			CK73FB1C474K	CHIP C 0.47UF K	
C415,416			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C417-420			CD04AS1C220M	ELECTRO 22UF 16WV	E1E
C417-422			CD04AS1C220M	ELECTRO 22UF 16WV	KM1
C431			CD04AS1C100M	ELECTRO 10UF 16WV	
C435,436			CK73GB1H152K	CHIP C 1500PF K	KM1
C437,438			CC73GCH1H101J	CHIP C 100PF J	
C501			CK73FB1C105K	CHIP C 1.0UF K	
C502			CD04AS1C101M	ELECTRO 100UF 16WV	
C503-506			C90-5700-05	NP-ELEC 4.7UF 16WV	
C507			CK73FB1C105K	CHIP C 1.0UF K	
C510,511			CD04AS1HR47M	ELECTRO 0.47UF 50WV	
C512			CD04AS0J470M	ELECTRO 47UF 6.3WV	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-342x-xx/3762-70)

Ref. No.	Add	New	Parts No.	Description	Destination
C513			CK73GB1H103K	CHIP C 0.010UF K	
C529		✻	C90-6742-05	ELECTRO 4.7UF 16WV	
C944			CK73GB1H104K	CHIP C 0.10UF K	
C953,954			CD04AS1C100M	ELECTRO 10UF 16WV	
C955			CK73GB1H103K	CHIP C 0.010UF K	
C956			CD04AT1A101M	ELECTRO 100UF 10WV	
C957,958			CK73GB1H102K	CHIP C 1000PF K	
C959			CD04AS1C470M	ELECTRO 47UF 16WV	
C960			CK73GB1H104K	CHIP C 0.10UF K	
C961			CD04AS1C100M	ELECTRO 10UF 16WV	
CN1			E41-2244-05	FLAT CABLE CONNECTOR	
CN2		✻	E41-2259-05	PIN ASSY	
CN3		✻	E41-2245-05	FLAT CABLE CONNECTOR	
CN4			E41-2446-05	PIN ASSY	KM1
CN5			E41-0944-05	PIN ASSY	E1E
⚠ J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E56-0855-05	CYLINDRICAL RECEPTACLE	
J3			E63-0896-05	PIN JACK	E1E
J3			E63-0897-05	PIN JACK	KM1
W1			E30-6218-15	CORD WITH PLUG	
L1			L33-1988-05	CHOKE COIL ASSY	
L2			L33-2262-05	CHOKE COIL	
L3			L33-1978-05	CHOKE COIL	
L201			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH, J)	
L202			L92-0075-05	CHIP FERRITE	
L301			L33-2260-05	CHOKE COIL	
L304			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
L306			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	E1E
X1			L77-2880-05	CRYSTAL RESONATOR	
X2			L78-0872-05	RESONATOR (12MHZ)	
X3			L77-2002-05	CRYSTAL RESONATOR	E1E
Q	1D		N83-3005-48	PAN HEAD TAPTITE SCREW	
T	2D		N80-3010-48	PAN HEAD TAPTITE SCREW	
U	2D		N82-2608-48	BINDING HEAD TAPTITE SCREW	
V	2D		N83-3020-48	PAN HEAD TAPTITE SCREW	
CP203			RK74GA1J471J	CHIP-COM 470 J 1/16W	
CP206			RK74GB1J222J	CHIP-COM 2.2K J 1/16W	
CP207,208			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP209			RK74GB1J101J	CHIP-COM 100 J 1/16W	KE1E
R1			RK73FB2B153J	CHIP R 15K J 1/8W	
R2			RK73GB2A101J	CHIP R 100 J 1/10W	
R3			RK73GB2A223J	CHIP R 22K J 1/10W	
R4			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R5			RK73FB2B221J	CHIP R 220 J 1/8W	
R6			RK73GB2A153J	CHIP R 15K J 1/10W	
R7			RK73GH2A243D	CHIP R 24K D 1/10W	
R8			RK73GH2A432D	CHIP R 4.3K D 1/10W	
R9			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R10			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R11			RK73GH2A303D	CHIP R 30K D 1/10W	
R12			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R13-16			RK73GB2A473J	CHIP R 47K J 1/10W	
R20			RK73GB2A473J	CHIP R 47K J 1/10W	
R21			RK73GB2A103J	CHIP R 10K J 1/10W	

Ref. No.	Add	New	Parts No.	Description	Destination
R22			RK73SB3A220J	CHIP R 22 J 1W	KM1
R23			RK73GB2A102J	CHIP R 1.0K J 1/10W	KM1
R24			RK73GB2A513J	CHIP R 51K J 1/10W	KM1
R25,26			RK73GB2A102J	CHIP R 1.0K J 1/10W	KM1
R27			RK73GB2A221J	CHIP R 220 J 1/10W	KM1
R28,29			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	KM1
R30			RK73GB2A332J	CHIP R 3.3K J 1/10W	KM1
R31			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R32			RK73GB2A223J	CHIP R 22K J 1/10W	
R101			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R102,103			RK73EB2E103J	CHIP R 10K J 1/4W	
R104			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R105			RK73SB3A471J	CHIP R 470 J 1W	KM1
R106			RK73GB2A223J	CHIP R 22K J 1/10W	KM1
R107			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R108			R92-5024-05	CHIP R 1K J 3/4W	
R109			RK73GB2A223J	CHIP R 22K J 1/10W	
R110			R92-5024-05	CHIP R 1K J 3/4W	
R111			RK73FB2B561J	CHIP R 560 J 1/8W	
R112			RK73GB2A223J	CHIP R 22K J 1/10W	
R113			RK73GB2A473J	CHIP R 47K J 1/10W	
R114			RK73GB2A104J	CHIP R 100K J 1/10W	
R115			RK73FB2B683J	CHIP R 68K J 1/8W	
R116			RK73GB2A393J	CHIP R 39K J 1/10W	
R117			RK73FB2B203J	CHIP R 20K J 1/8W	
R118			RK73GB2A104J	CHIP R 100K J 1/10W	
R119			RK73GB2A103J	CHIP R 10K J 1/10W	
R120			RK73GB2A474J	CHIP R 470K J 1/10W	
R121			RK73GB2A101J	CHIP R 100 J 1/10W	
R122,123			RK73GB2A103J	CHIP R 10K J 1/10W	
R124			RK73GB2A104J	CHIP R 100K J 1/10W	
R125			RK73GB2A223J	CHIP R 22K J 1/10W	
R126		✻	R92-5088-05	CHIP R 3.3K J 3/4W	
R127			RK73EB2E333J	CHIP R 33K J 1/4W	
R128,129			RK73GB2A103J	CHIP R 10K J 1/10W	
R130			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R131			RK73GB2A473J	CHIP R 47K J 1/10W	
R201			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R202			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R203			RK73GB2A104J	CHIP R 100K J 1/10W	
R204			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R207,208			RK73GB2A103J	CHIP R 10K J 1/10W	
R210			RK73GB2A473J	CHIP R 47K J 1/10W	
R211			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R212			RK73GB2A473J	CHIP R 47K J 1/10W	
R213			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R215			RK73GB2A104J	CHIP R 100K J 1/10W	
R216			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R218,219			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R220			RK73GB2A223J	CHIP R 22K J 1/10W	
R224			RK73GB2A473J	CHIP R 47K J 1/10W	
R227,228			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R229,230			RK73GB2A473J	CHIP R 47K J 1/10W	
R232			RK73GB2A473J	CHIP R 47K J 1/10W	
R233			RK73GB2A471J	CHIP R 470 J 1/10W	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-342x-xx/3762-70)

Ref. No.	Add	New	Parts No.	Description				Destination
R234,235			RK73GB2A392J	CHIP R	3.9K	J	1/10W	
R236,237			RK73GB2A473J	CHIP R	47K	J	1/10W	
R239			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R240			RK73GB2A101J	CHIP R	100	J	1/10W	
R241,242			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R243			RK73GB2A473J	CHIP R	47K	J	1/10W	E1M1E
R244			RK73GB2A473J	CHIP R	47K	J	1/10W	K
R245			RK73GB2A473J	CHIP R	47K	J	1/10W	E1E
R246			RK73GB2A473J	CHIP R	47K	J	1/10W	K
R246,247			RK73GB2A473J	CHIP R	47K	J	1/10W	M1
R248-250			RK73GB2A473J	CHIP R	47K	J	1/10W	KE1E
R249,250			RK73GB2A473J	CHIP R	47K	J	1/10W	M1
R253			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R254			RK73GB2A473J	CHIP R	47K	J	1/10W	
R257,258			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R259,260			RK73GB2A104J	CHIP R	100K	J	1/10W	
R261			RK73GB2A333J	CHIP R	33K	J	1/10W	
R262-265			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R266,267			RK73GB2A103J	CHIP R	10K	J	1/10W	
R268-271			RK73GB2A471J	CHIP R	470	J	1/10W	
R273-275			RK73GB2A101J	CHIP R	100	J	1/10W	
R279,280			RK73GB2A473J	CHIP R	47K	J	1/10W	
R281,282			RK73GB2A103J	CHIP R	10K	J	1/10W	
R283			RK73GB2A223J	CHIP R	22K	J	1/10W	
R284			RK73GB2A471J	CHIP R	470	J	1/10W	
R301			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R302,303			RK73EB2E100J	CHIP R	10	J	1/4W	
R304			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R305-308			RK73EB2E471J	CHIP R	470	J	1/4W	
R309			RK73EB2E472J	CHIP R	4.7K	J	1/4W	
R310			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R313			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R314			RK73GB2A8R2J	CHIP R	8.2	J	1/10W	
R316			RK73GB2A104J	CHIP R	100K	J	1/10W	
R317			RK73GB2A471J	CHIP R	470	J	1/10W	
R318			RK73GB2A104J	CHIP R	100K	J	1/10W	
R319			RK73GB2A471J	CHIP R	470	J	1/10W	
R320			RK73FB2B102J	CHIP R	1.0K	J	1/8W	
R321			RK73GB2A223J	CHIP R	22K	J	1/10W	
R322			RK73GB2A471J	CHIP R	470	J	1/10W	
R323			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R324			RK73GB2A471J	CHIP R	470	J	1/10W	
R325			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R326			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R329-331			RK73GB2A222J	CHIP R	2.2K	J	1/10W	E1E
R332			RK73GB2A241J	CHIP R	240	J	1/10W	
R334,335			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R341		✻	RK73GB2A9R1J	CHIP R	9.1	J	1/10W	
R401			RK73GB2A103J	CHIP R	10K	J	1/10W	
R402,403			RK73GB2A361J	CHIP R	360	J	1/10W	
R404,405			RK73GB2A223J	CHIP R	22K	J	1/10W	
R406,407			RK73GB2A361J	CHIP R	360	J	1/10W	
R408,409			RK73GB2A223J	CHIP R	22K	J	1/10W	
R410,411			RK73GB2A361J	CHIP R	360	J	1/10W	KM1
R412,413			RK73GB2A223J	CHIP R	22K	J	1/10W	KM1

Ref. No.	Add	New	Parts No.	Description				Destination
R414-419			RK73FB2B181J	CHIP R	180	J	1/8W	KM1
R414,415			RK73FB2B181J	CHIP R	180	J	1/8W	E1E
R420,421			RK73FB2B181J	CHIP R	180	J	1/8W	E1E
R426			RK73GB2A222J	CHIP R	2.2K	J	1/10W	KM1
R427			RK73GB2A472J	CHIP R	4.7K	J	1/10W	KM1
R428			RK73GB2A102J	CHIP R	1.0K	J	1/10W	KM1
R429			RK73GB2A473J	CHIP R	47K	J	1/10W	KM1
R431			RK73GB2A100J	CHIP R	10	J	1/10W	
R432			RK73EB2E2R2J	CHIP R	2.2	J	1/4W	
R433,434			RK73GB2A101J	CHIP R	100	J	1/10W	
R435		✻	RK73GB2A9R1J	CHIP R	9.1	J	1/10W	
R440,441			RK73GB2A102J	CHIP R	1.0K	J	1/10W	KM1
R501			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R503			RK73GB2A203J	CHIP R	20K	J	1/10W	
R505,506			RK73GB2A223J	CHIP R	22K	J	1/10W	
R507			RK73GB2A221J	CHIP R	220	J	1/10W	
R508			RK73EB2E472J	CHIP R	4.7K	J	1/4W	
R509			RK73EB2E101J	CHIP R	100	J	1/4W	
R510			RK73EB2E472J	CHIP R	4.7K	J	1/4W	
R511-515			RK73EB2E101J	CHIP R	100	J	1/4W	
R516,517			RK73EB2E100J	CHIP R	10	J	1/4W	
R518			RK73EB2E4R7J	CHIP R	4.7	J	1/4W	
R519			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R520			RK73EB2E102J	CHIP R	1.0K	J	1/4W	KE1E
R521-523			RK73EB2E471J	CHIP R	470	J	1/4W	KE1E
R908			RK73GB2A473J	CHIP R	47K	J	1/10W	
R920			RK73GB2A391J	CHIP R	390	J	1/10W	
R921			RK73GB2A242J	CHIP R	2.4K	J	1/10W	
R922			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R924			RK73GB2A512J	CHIP R	5.1K	J	1/10W	
R925			RK73GB2A101J	CHIP R	100	J	1/10W	
R926			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R927			RK73GB2A113J	CHIP R	11K	J	1/10W	
R928			RK73FB2B4R7J	CHIP R	4.7	J	1/8W	
R929			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
R932			RK73GB2A100J	CHIP R	10	J	1/10W	
R933			RK73FB2B152J	CHIP R	1.5K	J	1/8W	
R934			RK73GB2A104J	CHIP R	100K	J	1/10W	
R935			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R936			RK73GB2A103J	CHIP R	10K	J	1/10W	
R937			RK73GB2A101J	CHIP R	100	J	1/10W	
R938			RK73FB2B1R0J	CHIP R	1.0	J	1/8W	
R941-944			RK73GB2A471J	CHIP R	470	J	1/10W	
R945-949			RK73GB2A103J	CHIP R	10K	J	1/10W	
R950			RK73GB2A432J	CHIP R	4.3K	J	1/10W	
R951			RK73GB2A100J	CHIP R	10	J	1/10W	
R952			RK73GB2A431J	CHIP R	430	J	1/10W	
R953			RK73GB2A510J	CHIP R	51	J	1/10W	
W102,103			R92-1252-05	CHIP R	0 OHM	J	1/16W	E1E
W103			R92-1252-05	CHIP R	0 OHM	J	1/16W	KM1
W104			R92-2053-05	CHIP R	0 OHM	J	1/8W	KM1
W110			R92-1252-05	CHIP R	0 OHM	J	1/16W	
W111			R92-2053-05	CHIP R	0 OHM	J	1/8W	
W112,113			R92-1252-05	CHIP R	0 OHM	J	1/16W	
W114,115			R92-2053-05	CHIP R	0 OHM	J	1/8W	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-342x-xx/3762-70)

Ref. No.	Add	New	Parts No.	Description	Destination
W121			R92-1252-05	CHIP R 0 OHM J 1/16W	KM1
W123			R92-2053-05	CHIP R 0 OHM J 1/8W	
W124			R92-1252-05	CHIP R 0 OHM J 1/16W	
W125,126			R92-2053-05	CHIP R 0 OHM J 1/8W	
W127			R92-1252-05	CHIP R 0 OHM J 1/16W	
S1,2			S68-0886-05	PUSH SWITCH	
D1			S2V60✻A	DIODE	
D2			RB160L-40	DIODE	
D3			UDZS5.6B	ZENER DIODE	
D3			02DZ5.6F-Y	ZENER DIODE	
D4			HZU9.1 (B1)-E	ZENER DIODE	
D4		✻	02DZ9.1F-X	ZENER DIODE	
D5			UDZS8.2B	ZENER DIODE	
D5			02DZ8.2F-Y	ZENER DIODE	
D8			02DZ12F-X	ZENER DIODE	KM1
D9			AM01ZNF	DIODE	KM1
D9			10EDA20	DIODE	KM1
D10			SFPB-54VNF	DIODE	
D101			AM01ZNF	DIODE	
D101			10EDA20	DIODE	
D102			D1F60-5063	DIODE	
D102			1SR154-400	DIODE	
D103			AM01ZNF	DIODE	
D103			10EDA20	DIODE	
D104,105			D1F60-5063	DIODE	
D104,105			1SR154-400	DIODE	
D106			UDZS5.6B	ZENER DIODE	
D106			02DZ5.6F-Y	ZENER DIODE	
D107			UDZS4.7B	ZENER DIODE	
D107			02DZ4.7F-Y	ZENER DIODE	
D108,109			UDZS6.8B	ZENER DIODE	
D108,109			02DZ6.8F-Y	ZENER DIODE	
D110			DAN202U	DIODE	
D110			KDS121-P	DIODE	
D110			MC2848	DIODE	
D111			UDZS6.2B	ZENER DIODE	
D111			02DZ6.2F-Y	ZENER DIODE	
D201			DAP202U	DIODE	
D201			KDS120-P	DIODE	
D201			MC2846	DIODE	
D301			IMSA-6801-E	SURGE ABSORBER	
D304-309			STZ6.2N	ZENER DIODE	
D310			DA204K	DIODE	
D311			UDZS16B	ZENER DIODE	
D311			02DZ16F-Y	ZENER DIODE	
D401-403			DAP202U	DIODE	
D401-403			KDS120-P	DIODE	
D401-403			MC2846	DIODE	
D407			UDZS5.6B	ZENER DIODE	KM1
D407			02DZ5.6F-Y	ZENER DIODE	KM1
D408-410			DA204K	DIODE	KM1
D408,409			DA204K	DIODE	E1E
D411,412			DAP202U	DIODE	KM1
D411,412			KDS120-P	DIODE	KM1

Ref. No.	Add	New	Parts No.	Description	Destination
D411,412			MC2846	DIODE	KM1
D412			DAP202U	DIODE	E1E
D412			KDS120-P	DIODE	E1E
D412			MC2846	DIODE	E1E
D413,414			UDZS5.6B	ZENER DIODE	KM1
D501,502			DAP202U	DIODE	
D501,502			KDS120-P	DIODE	
D501,502			MC2846	DIODE	
D503,504			D1F60-5063	DIODE	
D503,504			1SR154-400	DIODE	
D505,506			AM01ZNF	DIODE	
D505,506			10EDA20	DIODE	
D507-510			D1F60-5063	DIODE	
D507-510			1SR154-400	DIODE	
D511,512			STZ6.8N	ZENER DIODE	
D513-515			STZ6.2N	ZENER DIODE	M1
D513-517			STZ6.2N	ZENER DIODE	KE1E
D901			STZ6.8N	ZENER DIODE	
D903			UDZS6.8B	ZENER DIODE	
D903			02DZ6.8F-Y	ZENER DIODE	
D904			DA227	DIODE	
D905			UDZS16B	ZENER DIODE	
D905			02DZ16F-Y	ZENER DIODE	
IC1		✻	30624MWPA35GP	MICROCONTROLLER IC	
IC2			E-TDA7415	ANALOGUE IC	
IC3			M5237ML-CF0J	ANALOGUE IC	
IC4			E-TDA7560A	ANALOGUE IC	
IC5			BA00CCWT-V5	ANALOGUE IC	
IC6			HD74HC02T-E	MOS-IC	
IC6			SN74HC02APWR	MOS-IC	
IC7			S-80836CNNB-J	MOS-IC	
IC8			LB1930M-E	ANALOGUE IC	
IC9			E-TDA7479AD	ANALOGUE IC	E1E
IC10			BR24L04FV-W	ROM IC	
IC11			TA75S558F-F	ANALOGUE IC	KM1
IC12			SI-8050JF3NF	ANALOGUE IC	
IC902			NJM4565V-ZB	ANALOGUE IC	
Q1			2SB1565	TRANSISTOR	
Q2			2SC4081	TRANSISTOR	
Q2			2SC4155A (Q,R,S)	TRANSISTOR	
Q3			2SA1576A	TRANSISTOR	
Q3			2SA1603A	TRANSISTOR	
Q4			UMC2N	TRANSISTOR	
Q5			2SB1565	TRANSISTOR	
Q6			UMC2N	TRANSISTOR	
Q7			2SB1565	TRANSISTOR	
Q8			2SC4081	TRANSISTOR	
Q8			2SC4155A (Q,R,S)	TRANSISTOR	
Q9			2SB1443	TRANSISTOR	
Q10			2SC4081	TRANSISTOR	
Q10			2SC4155A (Q,R,S)	TRANSISTOR	
Q11			DTC124EUA	DIGITAL TRANSISTOR	
Q11			KRC403-P	DIGITAL TRANSISTOR	
Q11			RT1N241M	TRANSISTOR	
Q12			2SC4081	TRANSISTOR	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-342x-xx/3762-70)

Ref. No.	Add	New	Parts No.	Description	Destination
Q12			2SC4155A (Q,R,S)	TRANSISTOR	
Q13			2SA1576A	TRANSISTOR	
Q13			2SA1603A	TRANSISTOR	
Q14,15			2SC4081	TRANSISTOR	KM1
Q14,15			2SC4155A (Q,R,S)	TRANSISTOR	KM1
Q16			2SB1443	TRANSISTOR	KM1
Q17			DTC124EUA	DIGITAL TRANSISTOR	
Q17			KRC403-P	DIGITAL TRANSISTOR	
Q17			RT1N241M	TRANSISTOR	
Q18			2SA1577	TRANSISTOR	
Q101			2SB1188 (Q,R)	TRANSISTOR	KM1
Q102			DTC114YUA	DIGITAL TRANSISTOR	KM1
Q102			KRC407-P	DIGITAL TRANSISTOR	KM1
Q102			RT1N144M	TRANSISTOR	KM1
Q103			2SB1188 (Q,R)	TRANSISTOR	
Q104			2SA1576A	TRANSISTOR	
Q104			2SA1603A	TRANSISTOR	
Q105			DTA114EUA	DIGITAL TRANSISTOR	
Q105			KRA302-P	DIGITAL TRANSISTOR	
Q105			RT1P141M	TRANSISTOR	
Q106			DTC114YUA	DIGITAL TRANSISTOR	
Q106			KRC407-P	DIGITAL TRANSISTOR	
Q106			RT1N144M	TRANSISTOR	
Q107			DTA123JK	DIGITAL TRANSISTOR	
Q108			DTC144EUA	DIGITAL TRANSISTOR	
Q108			KRC404-P	DIGITAL TRANSISTOR	
Q108			RT1N441M	TRANSISTOR	
Q109			2SC4081	TRANSISTOR	
Q109			2SC4155A (Q,R,S)	TRANSISTOR	
Q110			2SA1576A	TRANSISTOR	
Q110			2SA1603A	TRANSISTOR	
Q111,112			2SC4081	TRANSISTOR	
Q111,112			2SC4155A (Q,R,S)	TRANSISTOR	
Q113		✻	KTA2014EP (Y,GR)	TRANSISTOR	
Q113			2SA1774	TRANSISTOR	
Q113		✻	2SA1989 (Q,R,S)	TRANSISTOR	
Q114			DTA144EUA	DIGITAL TRANSISTOR	
Q114		✻	KRA304-P	DIGITAL TRANSISTOR	
Q114		✻	RT1P441M	TRANSISTOR	
Q115,116			DTA124EUA	DIGITAL TRANSISTOR	
Q115,116			KRA303-P	DIGITAL TRANSISTOR	
Q115,116			RT1P241M	TRANSISTOR	
Q300			2SB1689	TRANSISTOR	
Q301			DTC124EUA	DIGITAL TRANSISTOR	
Q301			KRC403-P	DIGITAL TRANSISTOR	
Q301			RT1N241M	TRANSISTOR	
Q304			DTC114YUA	DIGITAL TRANSISTOR	
Q304			KRC407-P	DIGITAL TRANSISTOR	
Q304			RT1N144M	TRANSISTOR	
Q400-403			DTC143TUA	DIGITAL TRANSISTOR	E1E
Q400-403			KRC410-P	DIGITAL TRANSISTOR	E1E
Q400-403			RT1N430M	TRANSISTOR	E1E
Q400-405			DTC143TUA	DIGITAL TRANSISTOR	KM1
Q400-405			KRC410-P	DIGITAL TRANSISTOR	KM1
Q400-405			RT1N430M	TRANSISTOR	KM1
Q905			2SC2873-F	TRANSISTOR	
Q906			DTA124EUA	DIGITAL TRANSISTOR	
Q906			KRA303-P	DIGITAL TRANSISTOR	
Q906			RT1P241M	TRANSISTOR	
Q907			2SA1576A	TRANSISTOR	
Q907			2SA1603A	TRANSISTOR	
TH1			PRF21BE471QB2	POSITIVE RESISTOR	
A1	2D		X86-3840-11	FRONT-END UNIT	KM1
A1	2D	✻	X86-3842-70	FRONT-END UNIT	E1
A1	2D	✻	X86-3842-71	FRONT-END UNIT	E
CD MECHANISM ASSY (X92-5100-0x)					
2	1B		A10-4827-32	CHASSIS	
5	1B		D10-4576-83	ARM ASSY	
8	2A		D10-4579-23	LEVER ASSY	
10	3A		D10-4581-13	ARM	
11	2A		D10-4582-13	ARM	
12	3A		D10-4583-03	ARM	
13	3A		D10-4584-03	ARM	
14	3B		D10-4585-03	ARM	
15	2A		D10-4586-13	SLIDER	
16	3B		D10-4587-52	SLIDER	
17	3B		D10-4588-13	SLIDER	
18	3B		D10-4595-04	ARM	
19	3B		D10-4596-24	ARM	
22	2A		D13-2151-04	GEAR	
23	2B		D13-2152-04	GEAR	
24	3B		D13-2153-04	GEAR	
25	3B		D13-2154-04	GEAR	
26	3B		D13-2155-04	WORM	
27	3B		D13-2156-14	GEAR	
28	3B		D13-2157-04	GEAR	
29	3B		D13-2158-04	GEAR	
30	3B		D13-2168-04	GEAR	
31	3B		D13-2171-04	GEAR	
32	2B		D13-2172-13	RACK (GEAR)	
33	2A		D14-0759-04	ROLLER	
35	2B		D21-2382-04	SHAFT	
36	1A		D23-0954-04	RETAINER	
37	1B		D39-0246-05	DAMPER	
38	2B		G01-3072-04	EXTENSION SPRING	
39	2A		G01-3073-04	TORSION COIL SPRING	
40	2A		G01-3074-04	EXTENSION SPRING	
41	1B		G01-3075-14	EXTENSION SPRING	
42	2A		G01-3076-04	EXTENSION SPRING	
43	1B		G01-3077-14	EXTENSION SPRING	
44	2B		G02-1399-04	FLAT SPRING	
45	2B		G02-1408-04	FLAT SPRING	
51	1A		J21-9676-32	MOUNTING HARDWARE	
52	3B		J21-9677-22	MOUNTING HARDWARE	
53	1B		J21-9678-13	MOUNTING HARDWARE	
55	1A		J90-1001-11	GUIDE	
56	1B		J90-1023-03	GUIDE	

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

PARTS LIST

CD MECHANISM ASSY (X92-5100-0x)

Ref. No.	Add	New	Parts No.	Description	Destination
DFPC1	3A		J84-0141-05	FLEXIBLE PRINTED WIRING BOARD	
A	2B		N09-4460-05	TAPTITE SCREW (OVAL P TAPTIT)	
B	1B		N09-4472-15	MACHINE SCREW (M1.7X8.0)	
C	2B		N09-6004-05	MACHINE SCREW (M1.7X2.5 IB-L)	
E	2B		N09-6007-05	MACHINE SCREW (PAN M2X2)	
F	1A		N09-6051-05	TAPTITE SCREW (BIND P 2X5)	
G	2A		N19-2163-04	FLAT WASHER	
H	1B		N39-2020-46	PAN HEAD MACHINE SCREW	
J	1B		N09-6108-05	MACHINE SCREW (M2X3.5TYPE3)	
K	3B		N09-6155-05	SEMS (TAPTITE SCREW)(PT2X6)	
DM1	3B		T42-1066-04	DC MOTOR ASSY (SP)	
DM2	2B		T42-1067-04	DC MOTOR ASSY (LO)	
DPU1	2B		X93-2010-00	OPTICAL PICKUP ASSY	

Ref. No.	Add	New	Parts No.	Description	Destination

E : KDC-W6531 **E1** : KDC-W6531Y **K** : KDC-X589 **M1** : KDC-X7529

⚠ Indicates safety critical components.

SPECIFICATIONS

KDC-W6531 / W6531Y

FM tuner section

Frequency range (50kHz space) ..... 87.5MHz~108.0MHz
Usable sensitivity (S/N=26dB) 0.7µV/75Ω
Quieting Sensitivity (S/N=46dB) 1.6µV/75Ω
Frequency response (±3.0dB) ..... 30Hz~15kHz
Signal to Noise ratio (MONO) 65dB
Selectivity (DIN) (±400kHz) ..... ≧80dB
Stereo separation (1kHz) 35dB

MW tuner section

Frequency range (9kHz space) ..... 531kHz~1611kHz
Usable sensitivity (S/N=20dB) 25µV

LW tuner section

Frequency range ..... 153kHz~281kHz
Usable sensitivity (S/N=20dB) 45µV

CD player section

Laser diode ..... GaAlAs
Digital filter (D/A) ..... 8Times Over Sampling
D/A Converter 1Bit
Spindle speed (Audio file) ..... 1000~400rpm (CLV 2times)
Wow & Flutter ..... Below Measurable Limit
Frequency response (±1dB) ..... 10Hz~20kHz
Total harmonic distortion (1kHz) 0.008%
Signal to Noise ratio (1kHz) 110dB
Dynamic range 93dB
Channel separation 85dB
MP3 decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA decode ..... Compliant with Windows Media Audio
AAC decode ..... AAC-LC ".m4a" files

Audio section

Maximum output power ..... 50W x 4
Output power (DIN45324, +B=14.4V) ..... 30W x 4
Tone action
  Bass ..... 100Hz±10dB
  Middle ..... 1kHz±10dB
  Treble ..... 10kHz±10dB
Preout level / Load (during disc play) 2500mV/10kΩ
Preout impedance ..... ≦600Ω

General

Operating voltage (11~16V allowable) 14.4V
Current consumption 10A
Installation Size (W x H x D) ..... 182 x 53 x 155mm
Weight 1.4kg

KDC-X589

FM tuner section

Frequency range (200kHz space) ..... 87.9MHz~107.9MHz
Usable sensitivity (S/N=30dB) 9.3dBf (0.8µV/75Ω)
Quieting Sensitivity (S/N=50dB) 15.2dBf (1.6µV/75Ω)
Frequency response (±3dB) ..... 30Hz~15kHz
Signal to Noise ratio (MONO) 70dB
Selectivity (±400kHz) ..... ≧80dB
Stereo separation (1kHz) 40dB

AM tuner section

Frequency range (10kHz space) ..... 530kHz~1700kHz
Usable sensitivity (S/N=20dB) 28dBµ (25µV)

CD player section

Laser diode ..... GaAlAs
Digital filter (D/A) ..... 8 Times Over Sampling
D/A Converter 1Bit
Spindle speed (Audio file) ..... 1000~400 rpm (CLV 2times)
Wow & Flutter ..... Below Measurable Limit
Frequency response (±1dB) ..... 10Hz~20kHz
Total harmonic distortion (1kHz) 0.008%
Signal to Noise ratio (1kHz) 110dB
Dynamic range 93dB
Channel separation 96dB
MP3 decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA decode ..... Compliant with Windows Media Audio
AAC decode ..... AAC-LC ".m4a" files

Audio section

Maximum output power ..... 50W x 4
Full Bandwidth Power (at less than 1% THD) ..... 22W x 4
Tone action
  Bass ..... 100Hz±10dB
  Middle ..... 1kHz±10dB
  Treble ..... 10kHz±10dB
Preout level / Load (during disc play) 4000mV/10kΩ
Preout impedance ..... ≦600Ω

General

Operating voltage (11~16V allowable) 14.4V
Current consumption 10A
Installation Size (W x H x D) ..... 182 x 53 x 155mm
..... 7-3/16 x 2-1/16 x 6-1/10inch
Weight 3.09lbs (1.4kg)

SPECIFICATIONS

KDC-X7529

FM tuner section

Frequency range
- 50 kHz space ..... 87.5MHz~108.0MHz
- 200 kHz space ..... 87.9MHz~107.9MHz

Usable sensitivity (S/N=30dB) 9.3dBf (0.8µV/75Ω)
Quieting Sensitivity (S/N=50dB) 15.2dBf (1.6µV/75Ω)
Frequency response (±3.0dB) ..... 30Hz~15kHz
Signal to Noise ratio (MONO) 70dB
Selectivity (±400kHz) ..... ≧80dB
Stereo separation (1kHz) 40dB

AM tuner section

Frequency range
- 9 kHz space ..... 531kHz~1611kHz
- 10 kHz space ..... 530kHz~1700kHz

Usable sensitivity (S/N=20dB) 28dBµ (25µV)

CD player section

Laser diode ..... GaAlAs
Digital filter (D/A) ..... 8Times Over Sampling
D/A Converter 1Bit
Spindle speed (Audio file) ..... 1000~400rpm (CLV 2times)
Wow & Flutter ..... Below Measurable Limit
Frequency response (±1dB) ..... 10Hz~20kHz
Total harmonic distortion (1kHz) 0.008%
Signal to Noise ratio (1kHz) 110dB
Dynamic range 93dB
Channel separation 96dB
MP3 decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA decode ..... Compliant with Windows Media Audio
AAC decode ..... AAC-LC ".m4a" files

Audio section

Maximum output power ..... 50W x 4
Full Bandwidth Power (at less than 1% THD) ..... 22W x 4
Tone action
- Bass ..... 100Hz±10dB
- Middle ..... 1kHz±10dB
- Treble ..... 10kHz±10dB

Preout level / Load (during disc play) 4000mV/10kΩ
Preout impedance ..... ≦600Ω

General

Operating voltage (11~16V allowable) 14.4V
Current consumption 10A
Installation Size (W x H x D) ..... 182 x 53 x 155mm
Weight 3.09lbs (1.40kg)

KENWOOD follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

40%